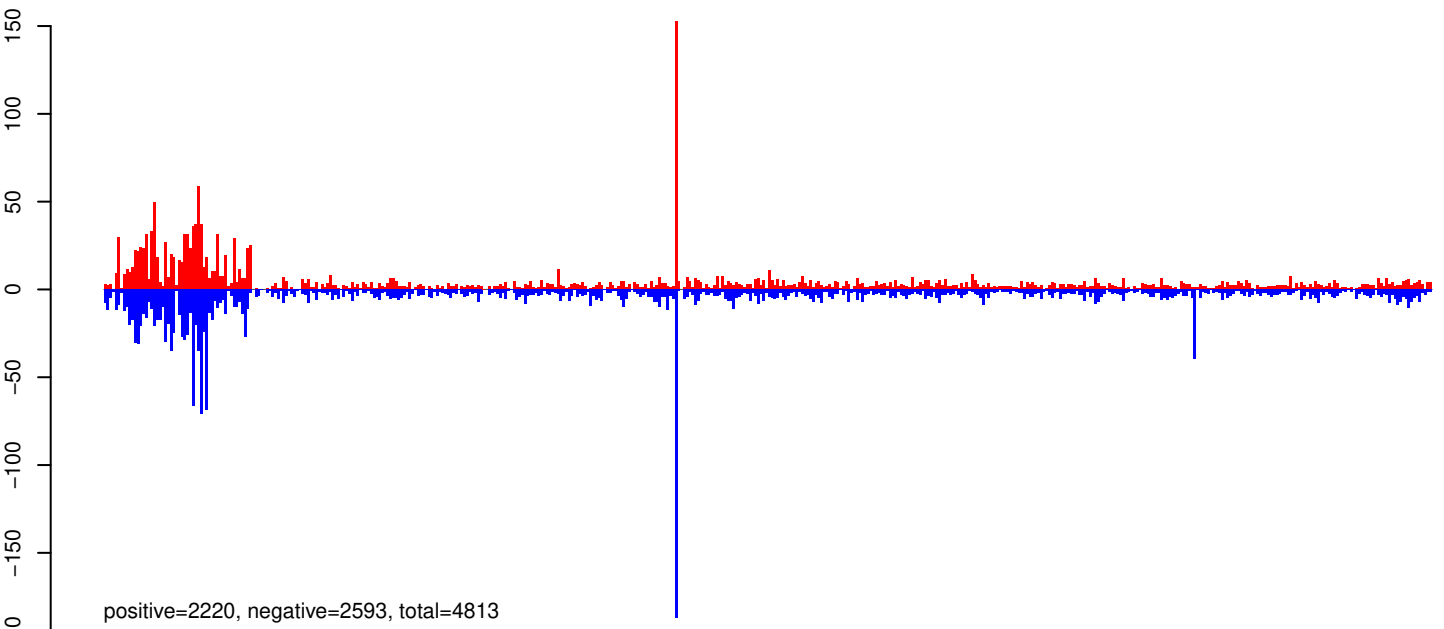
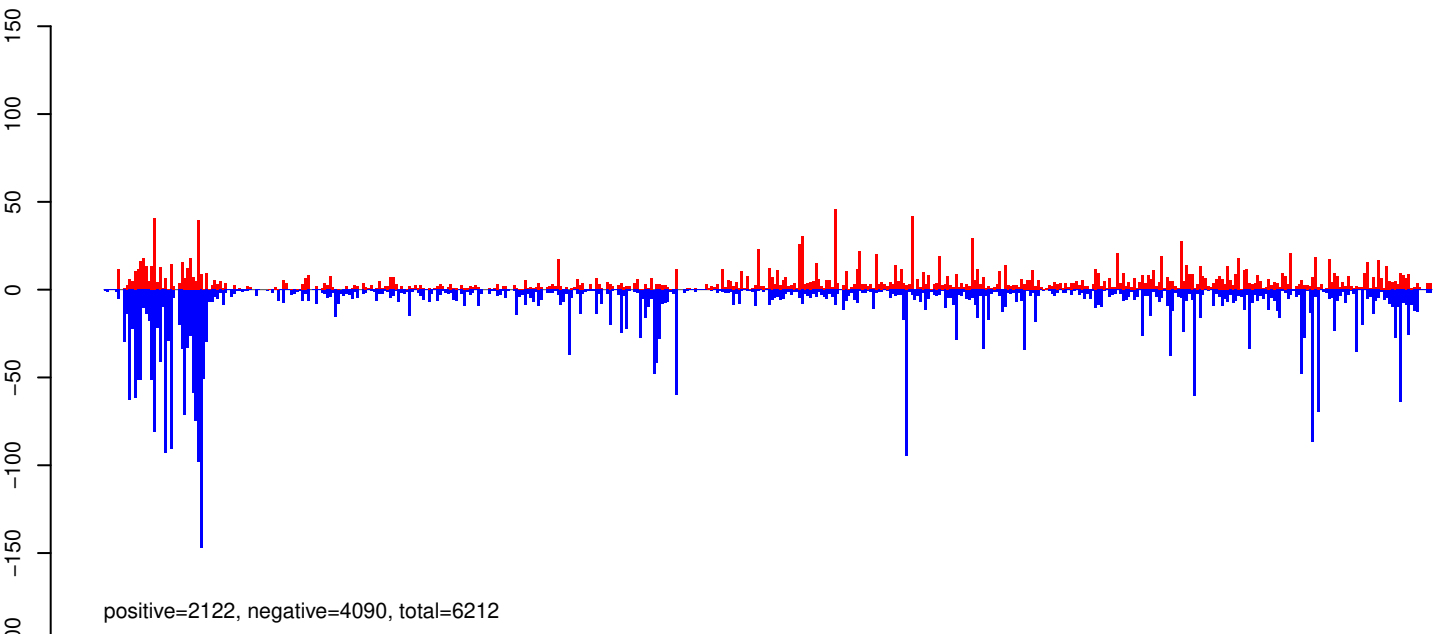


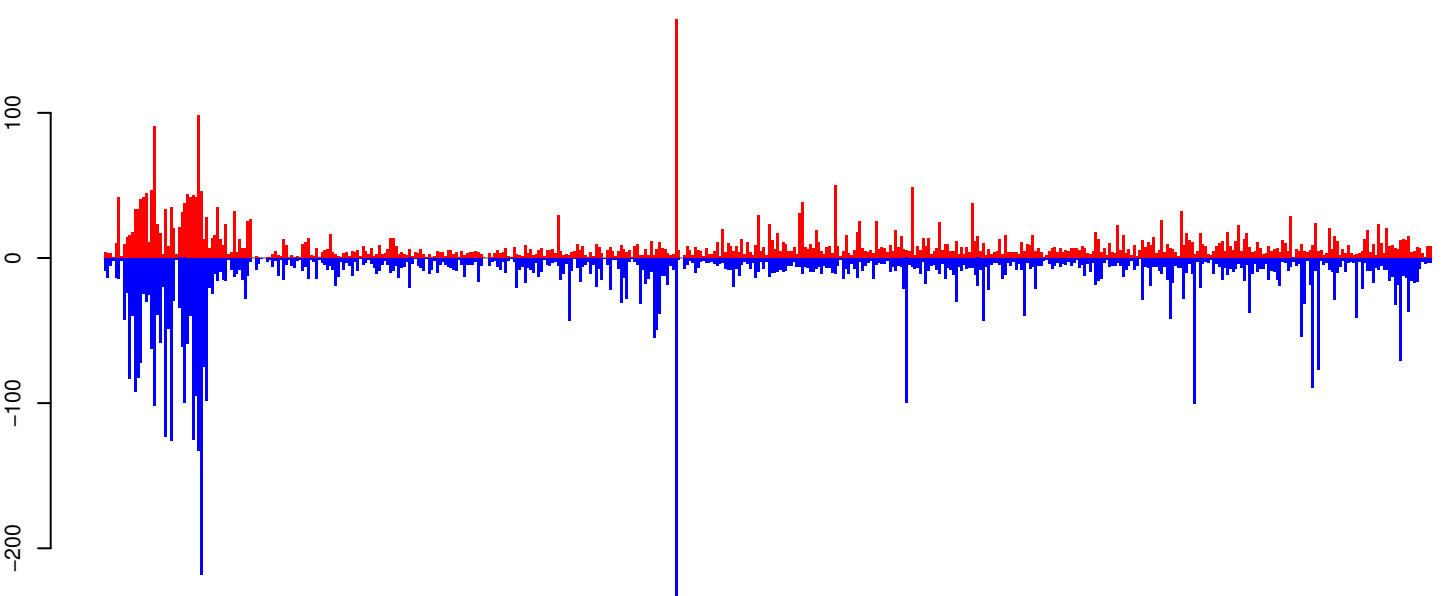
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



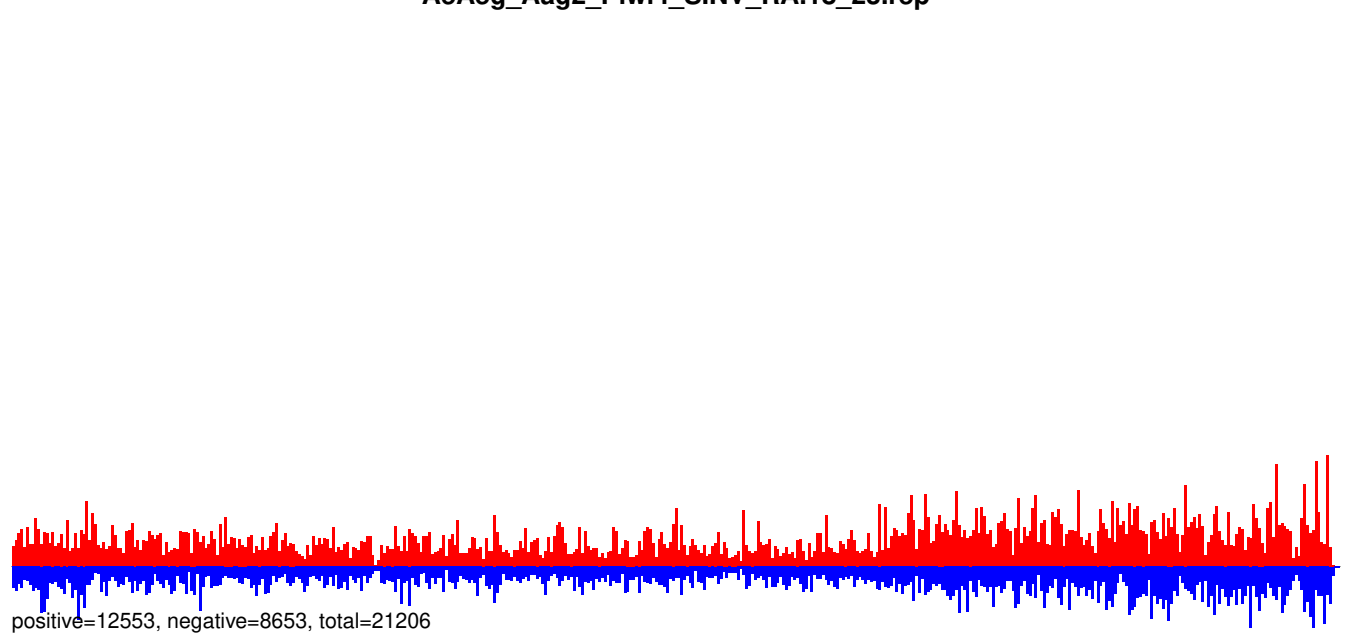
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



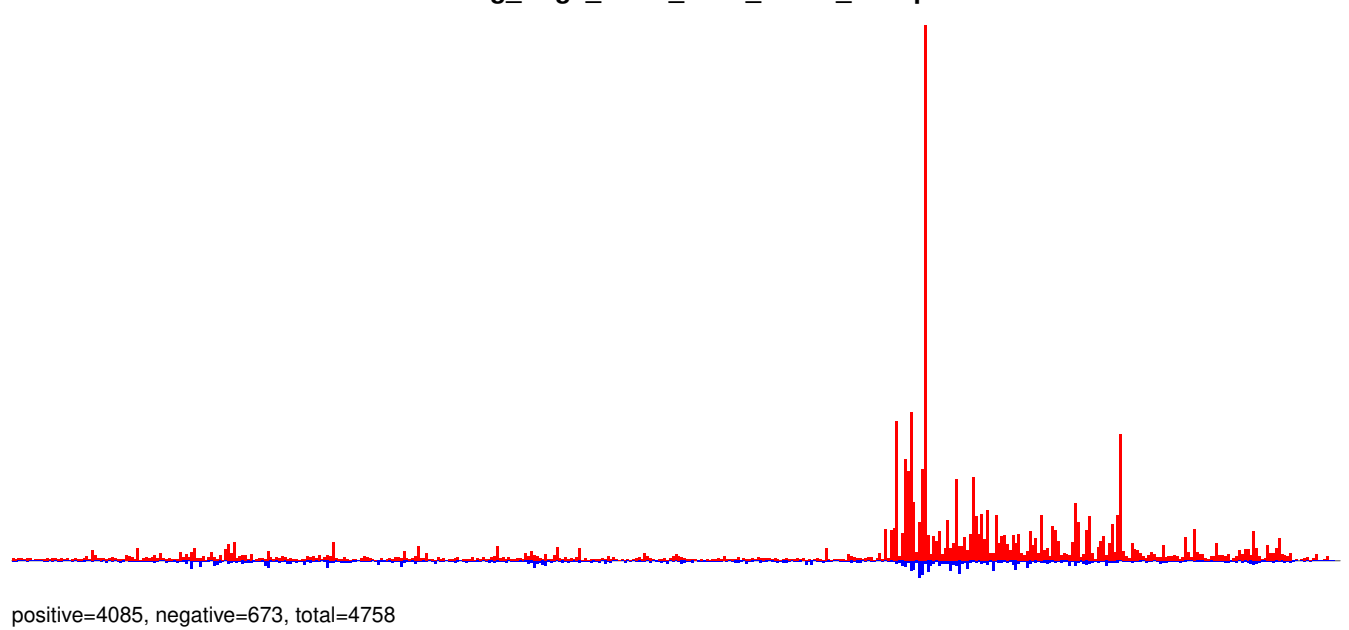
25, positive=4299, negative=6582, total=10881 Charoen-like virus isolate\_Rio\_segment\_S\_plus\_segment\_M\_plus\_segment\_L\_Nucle:1-12099

0 2000 4000 6000 8000 10000 12000

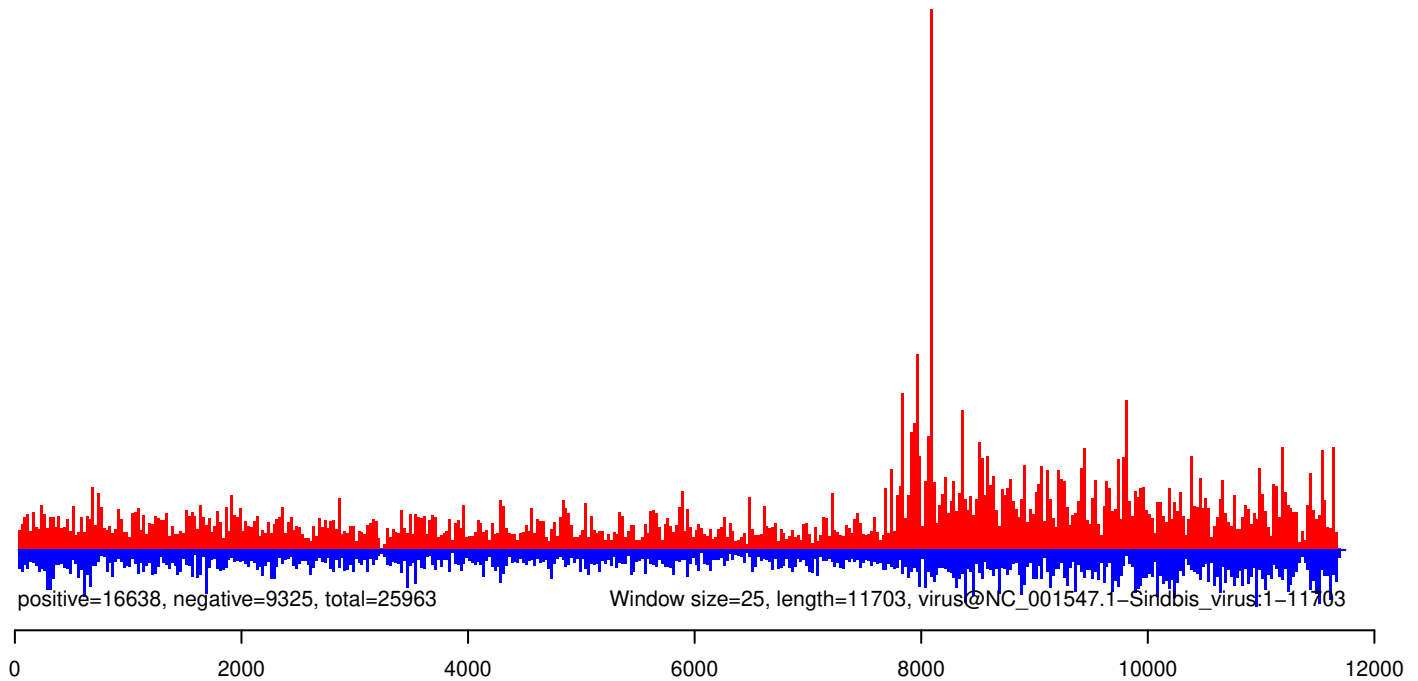
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



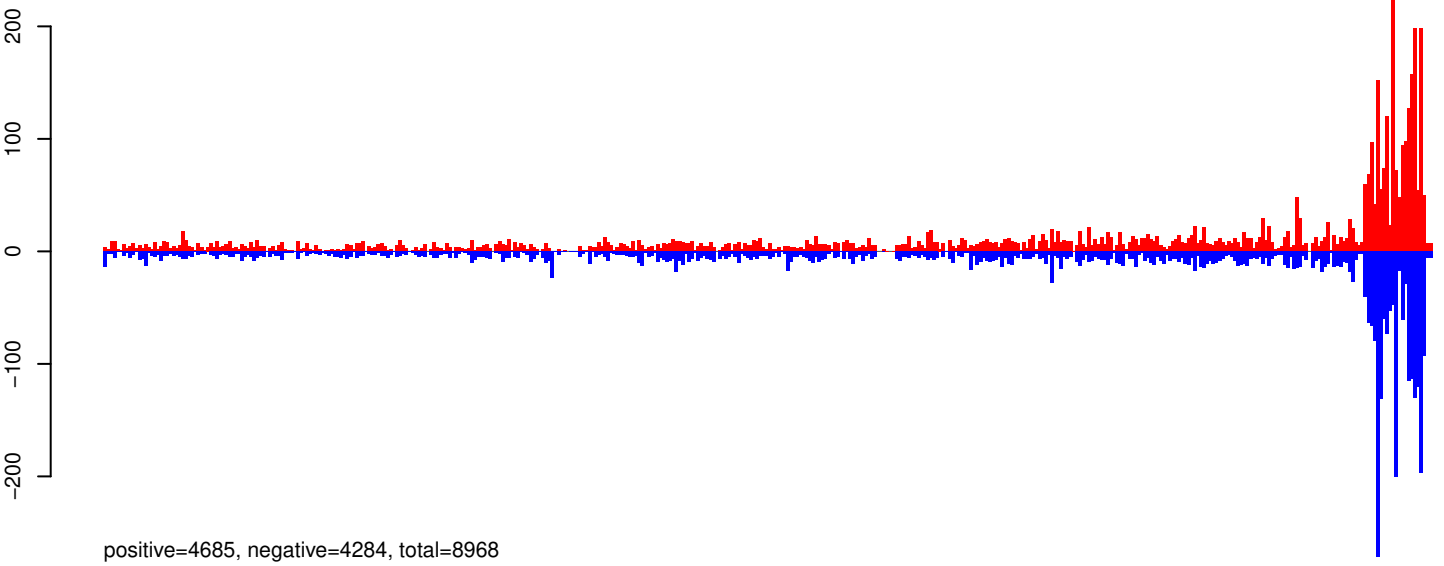
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



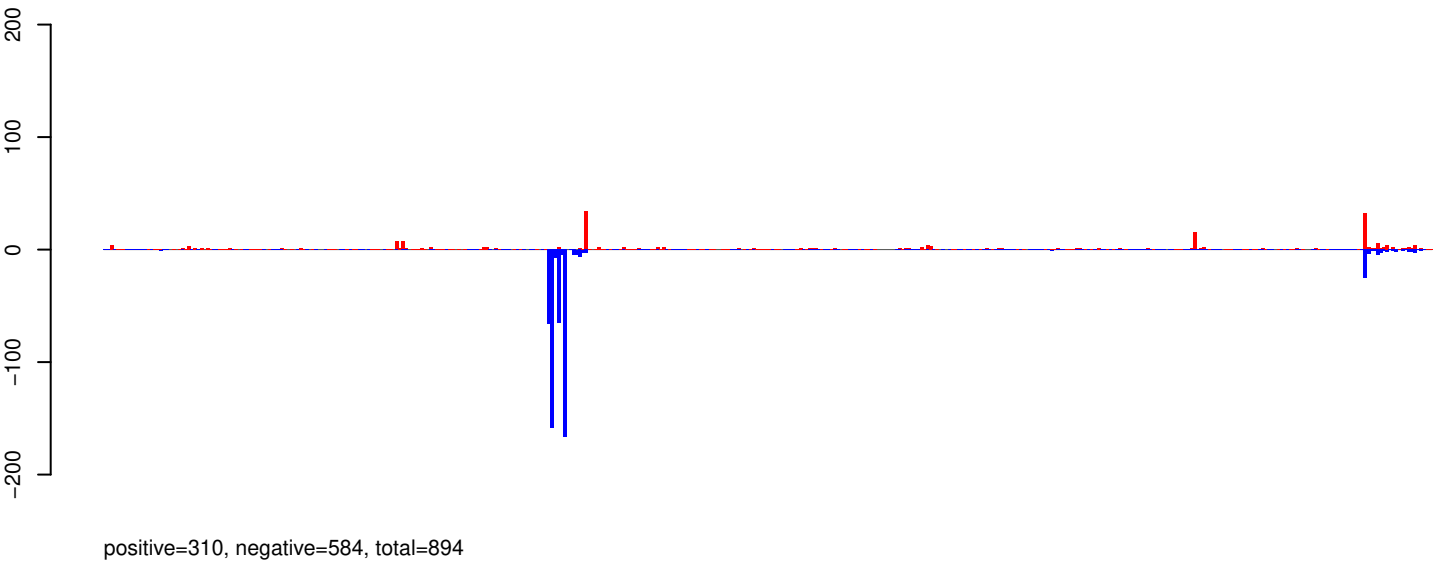
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



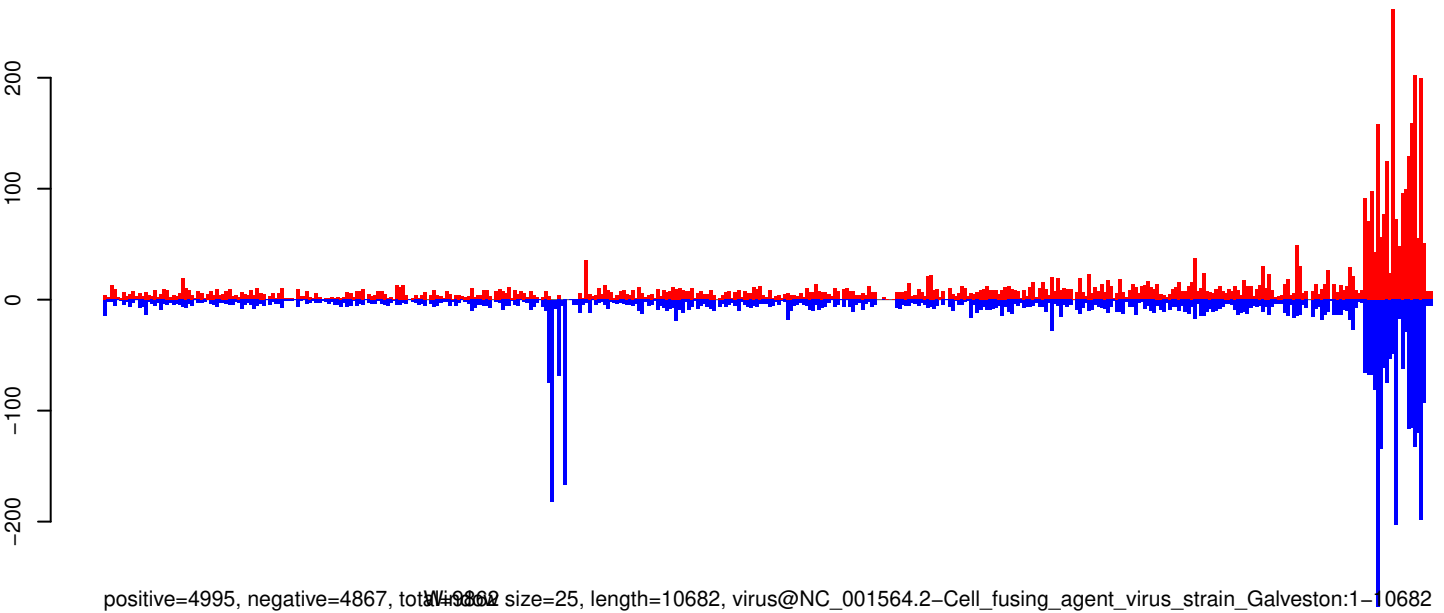
AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep



AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep



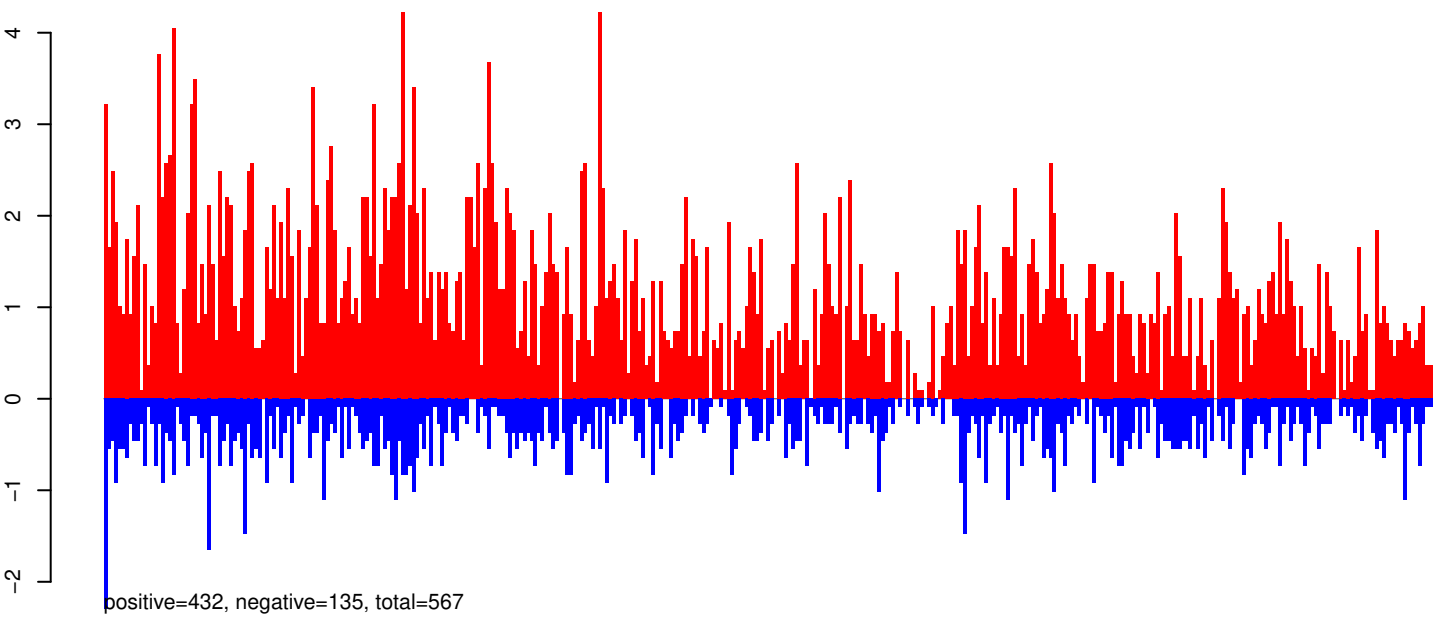
AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep



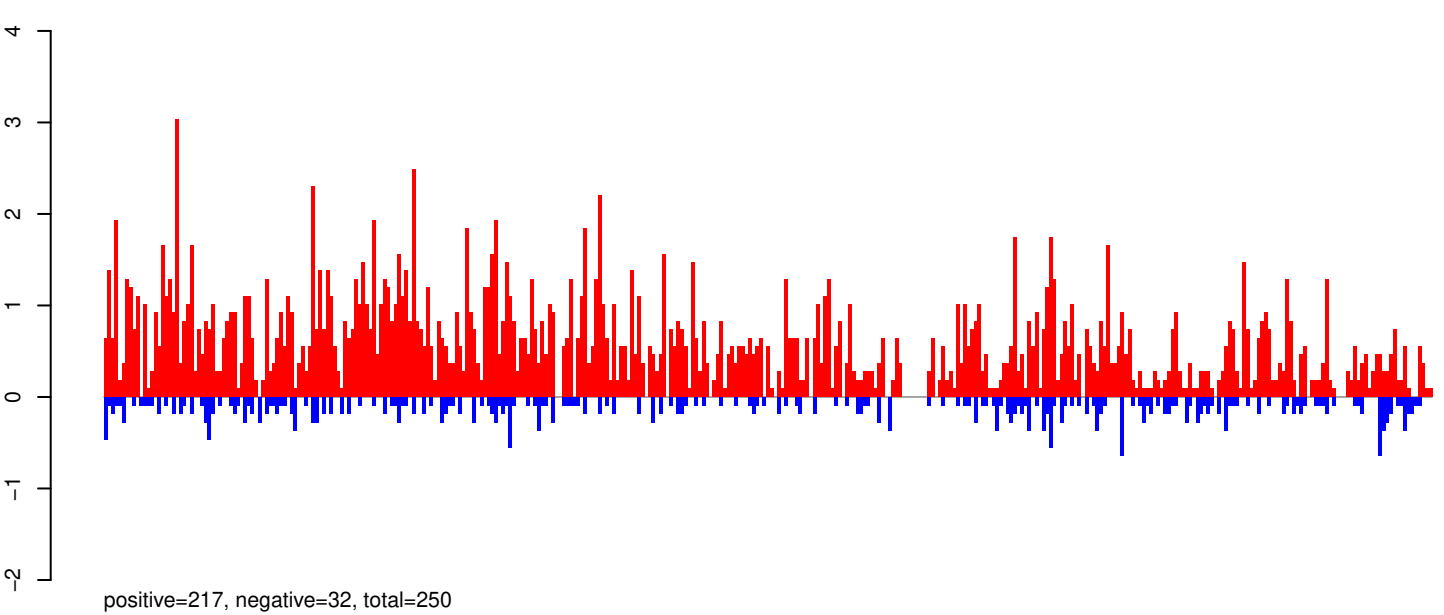
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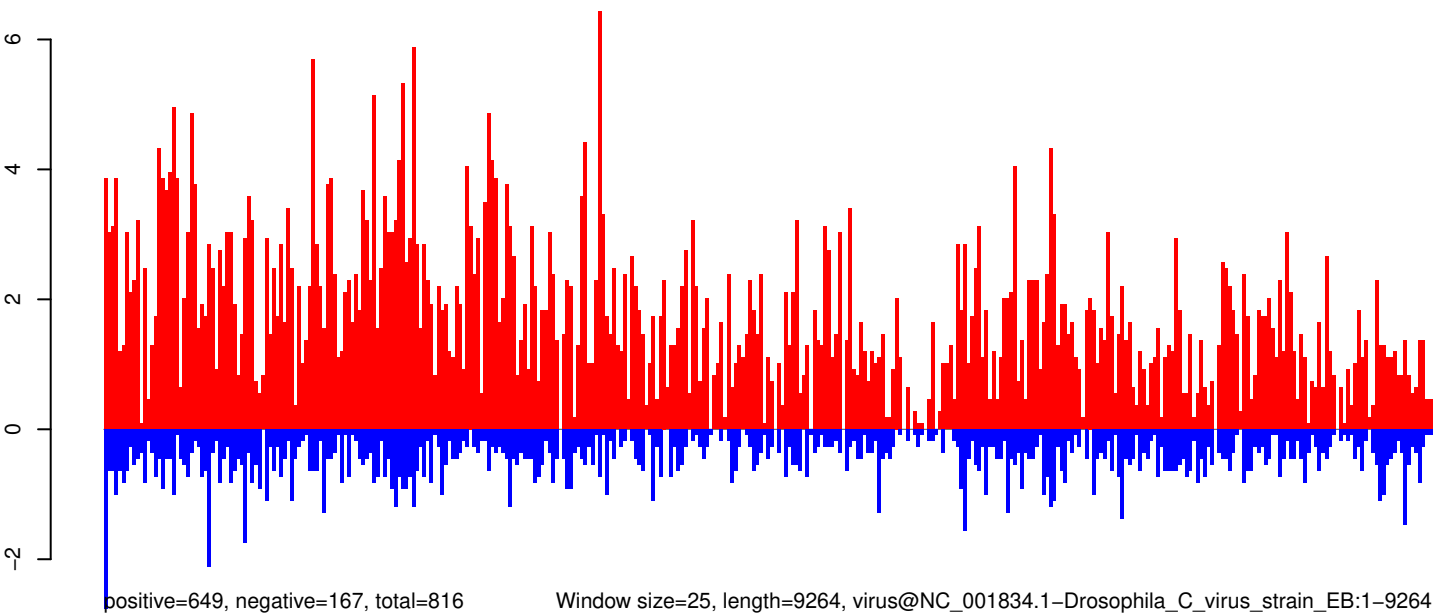
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



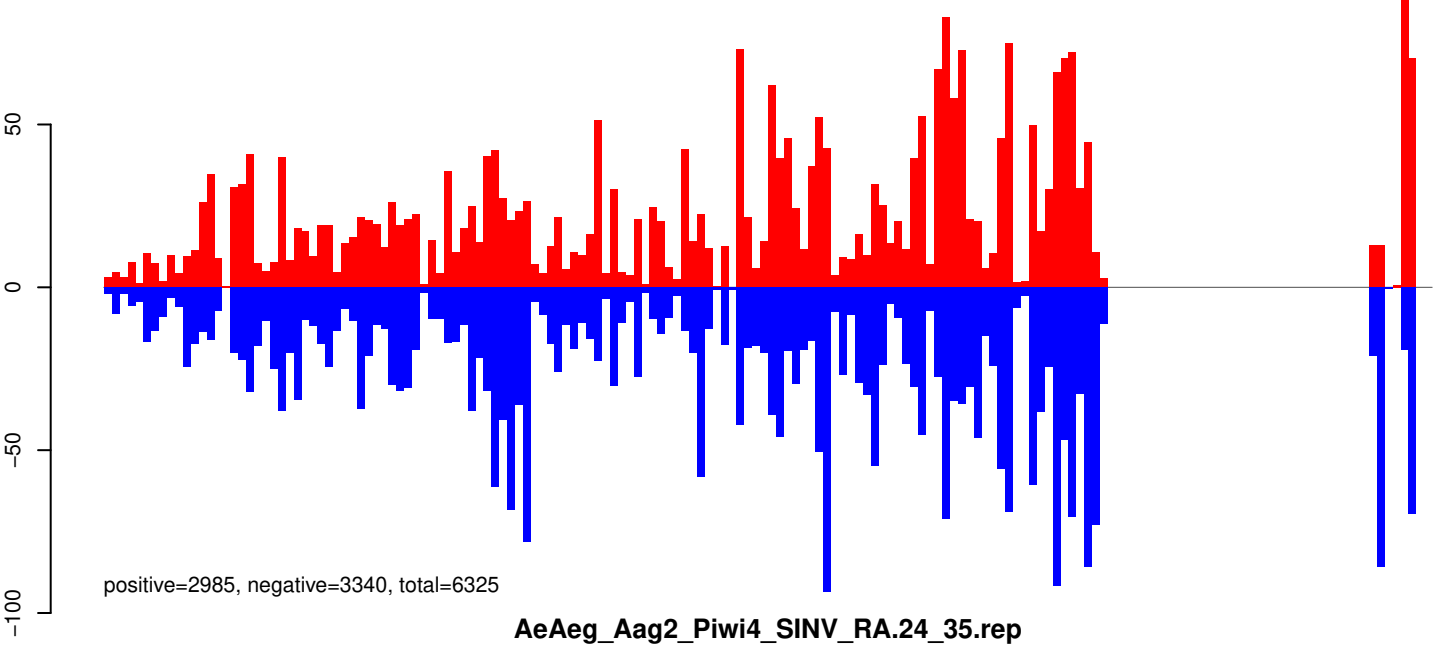
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



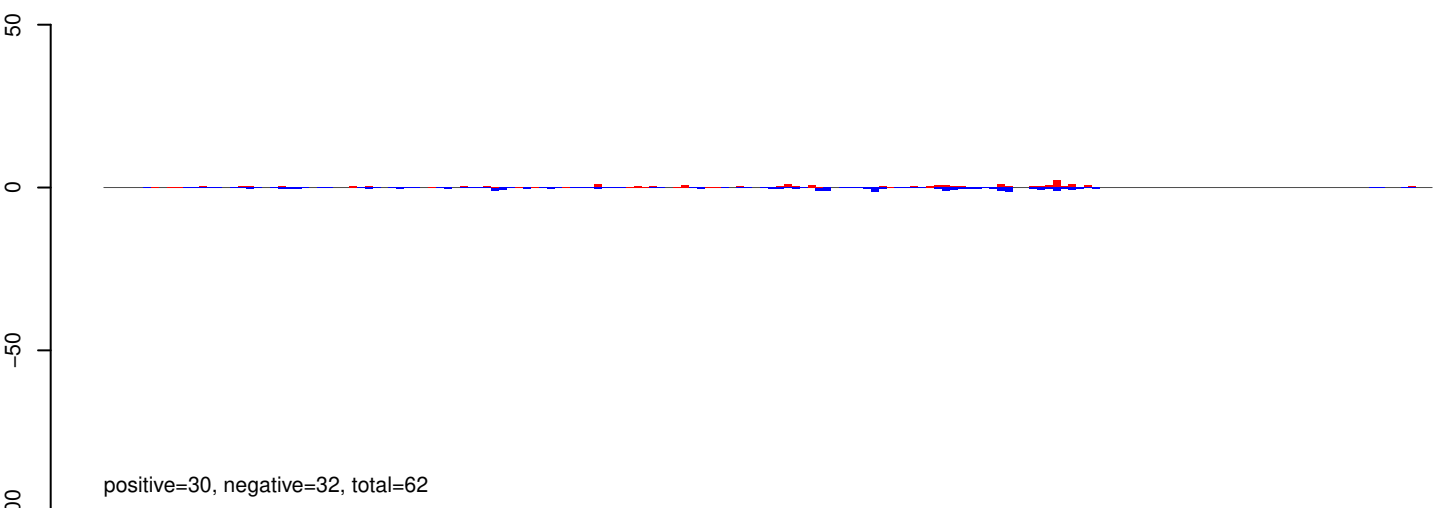
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



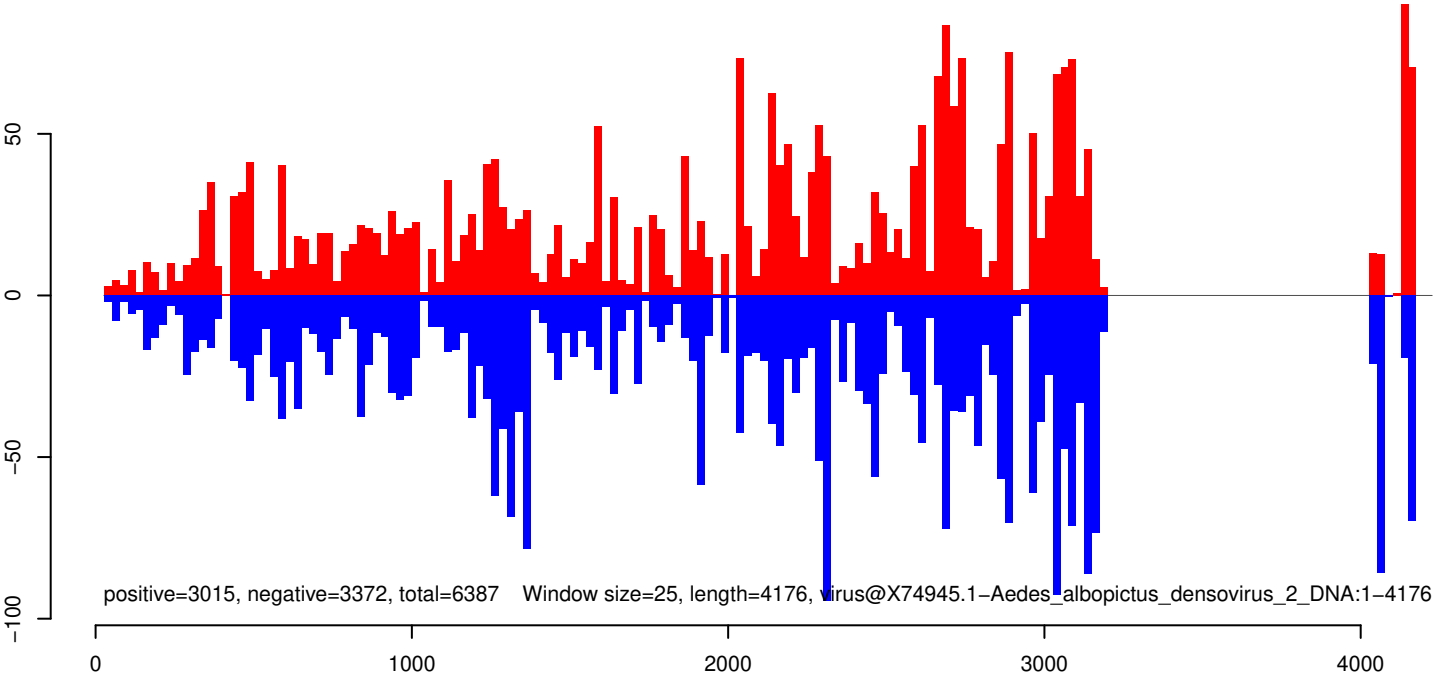
AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep



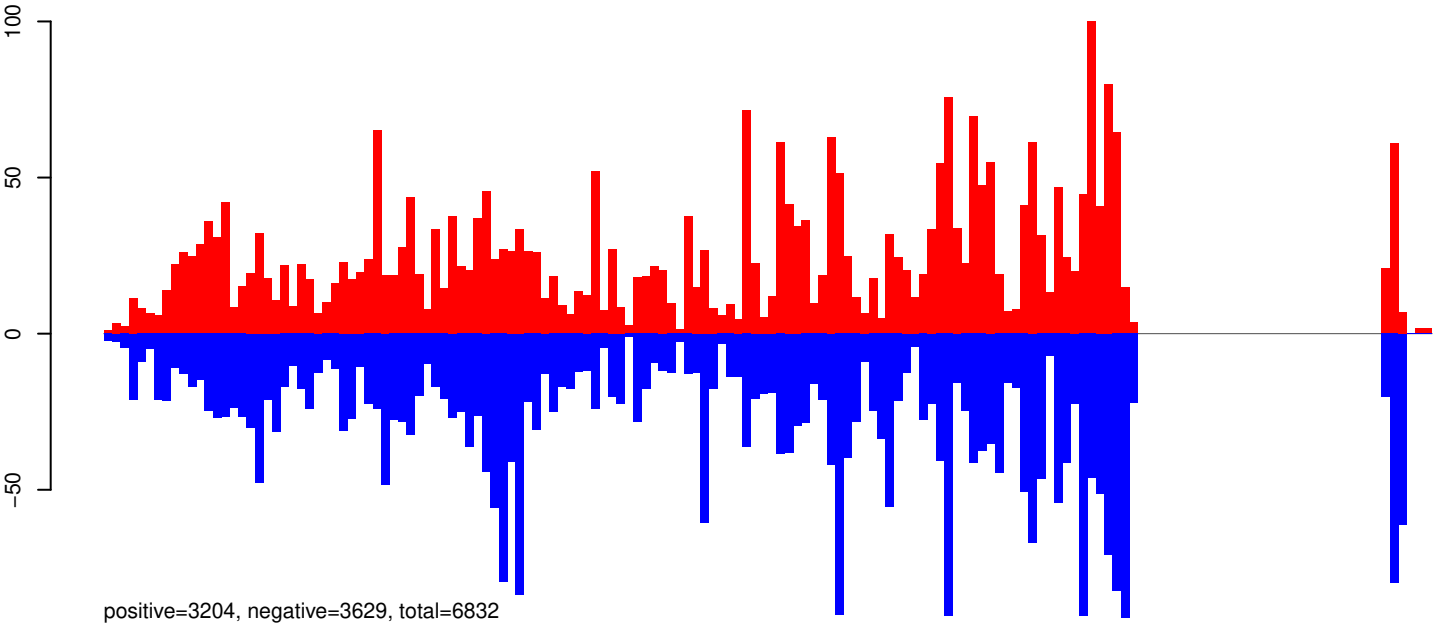
AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep



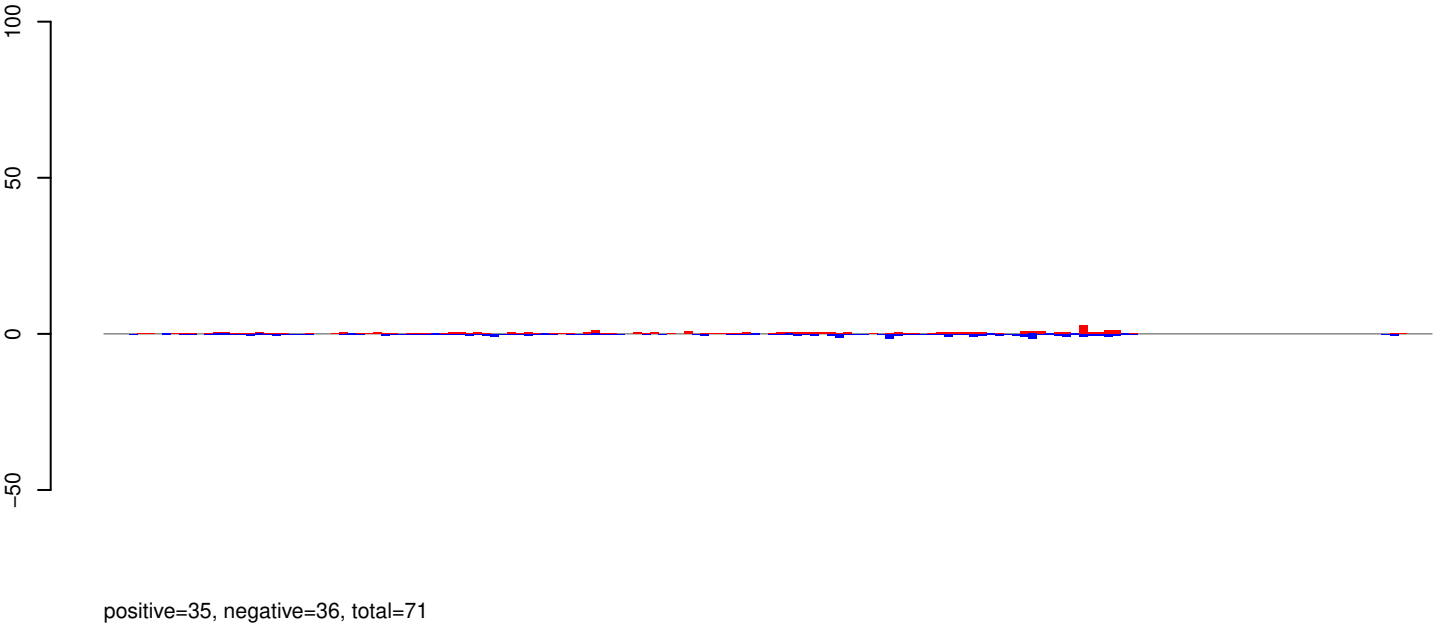
AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep



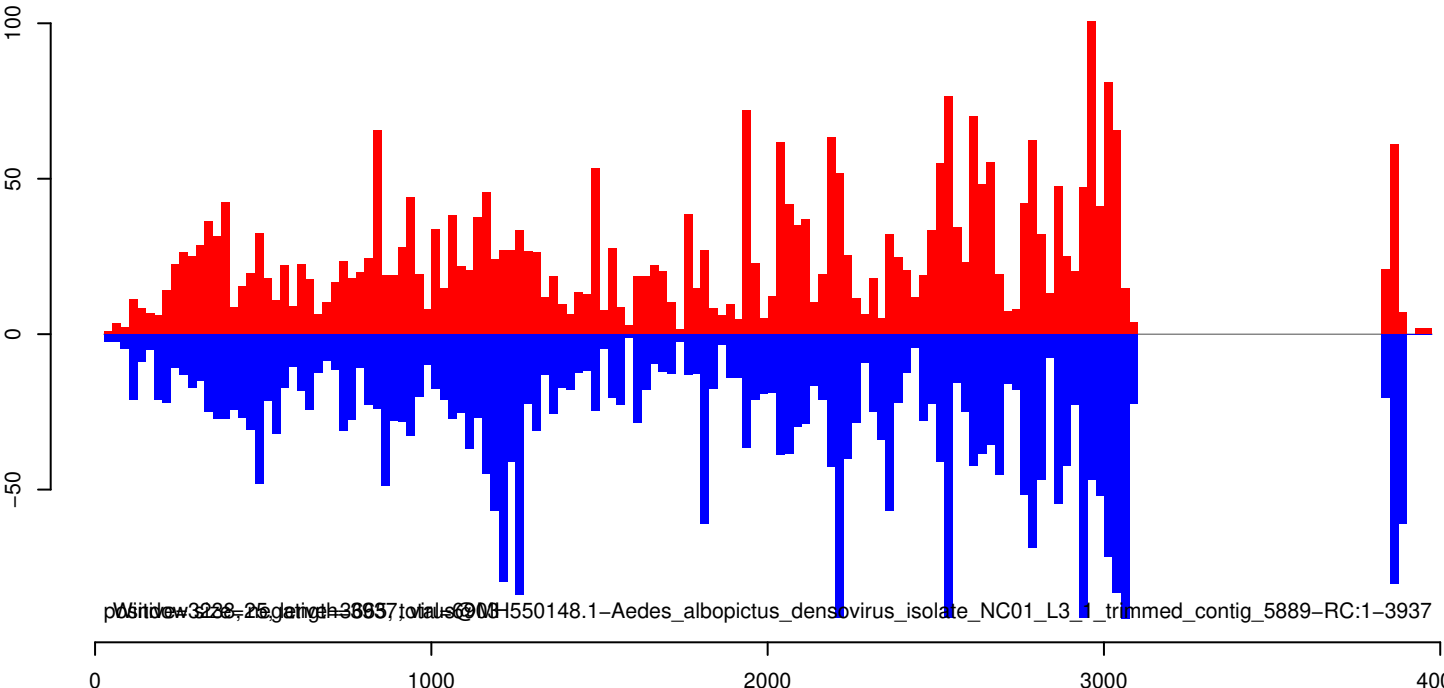
AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep



AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep



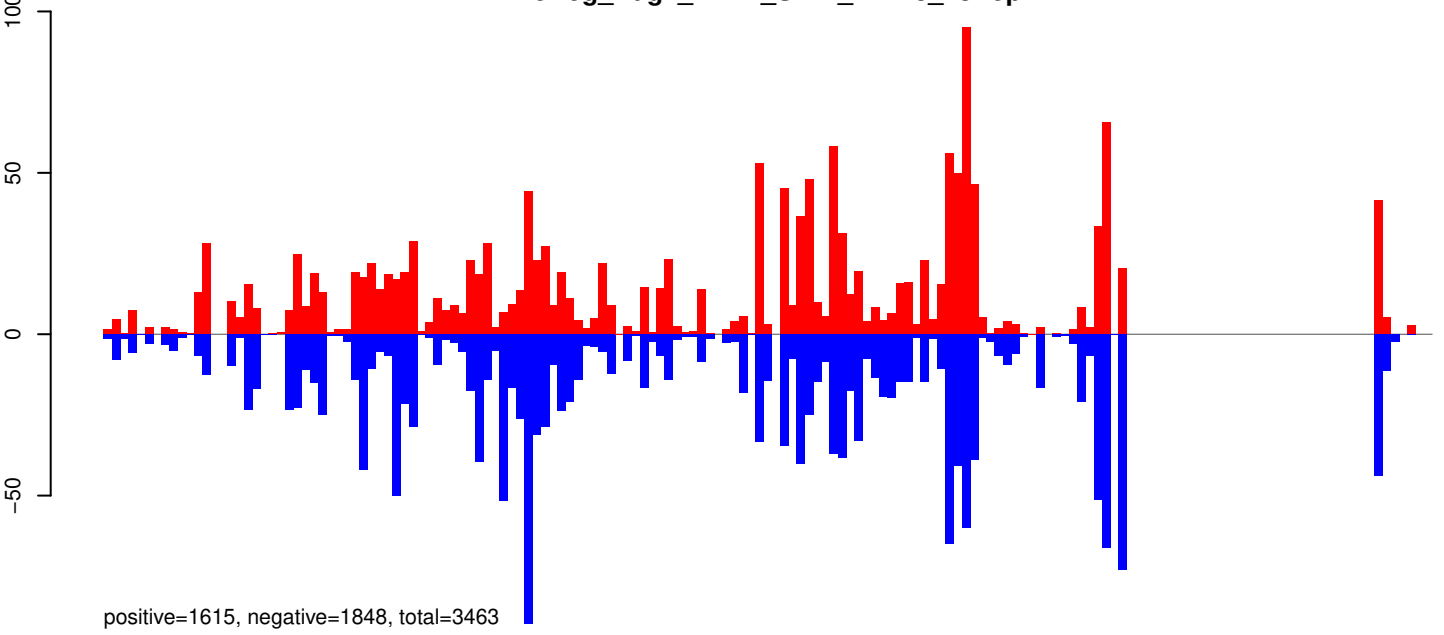
AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep



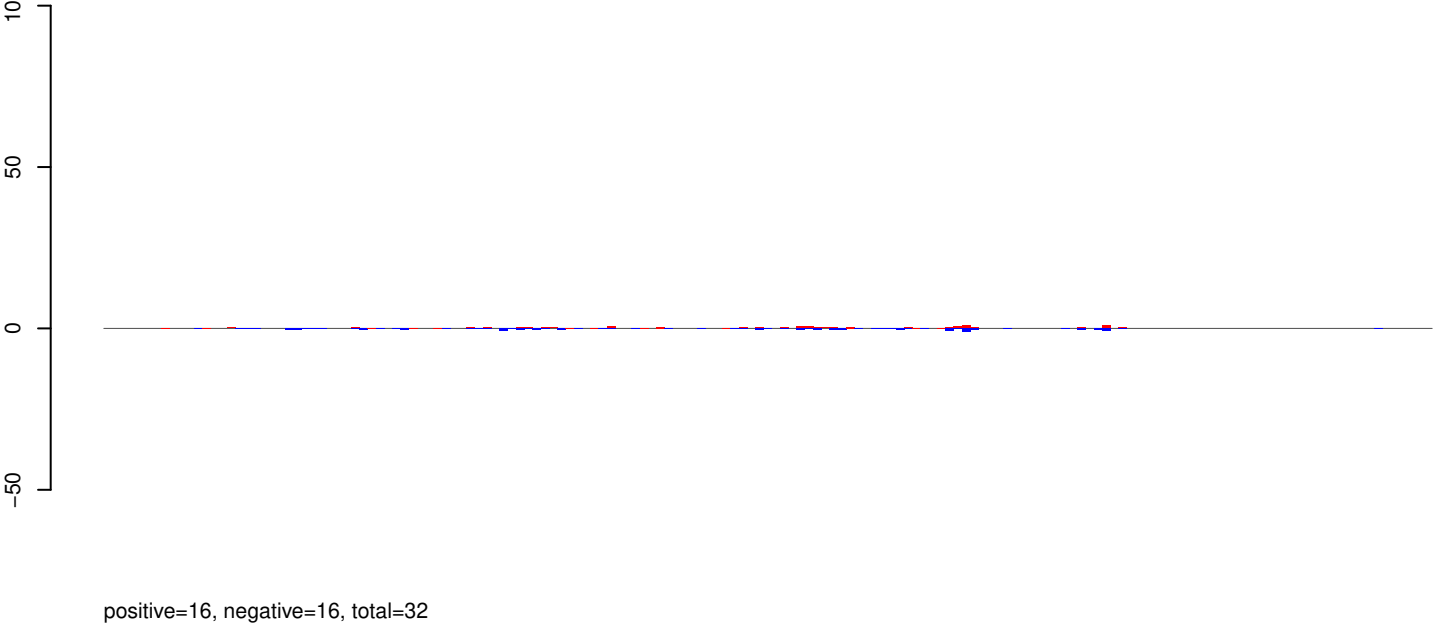




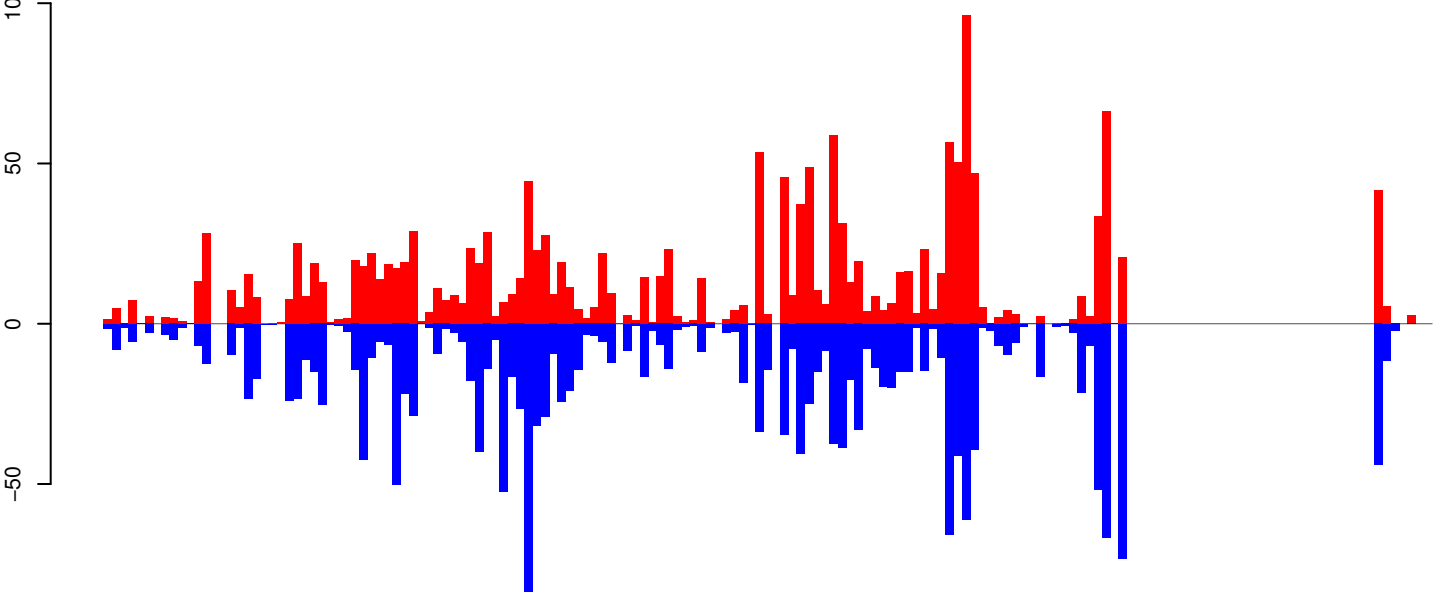
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



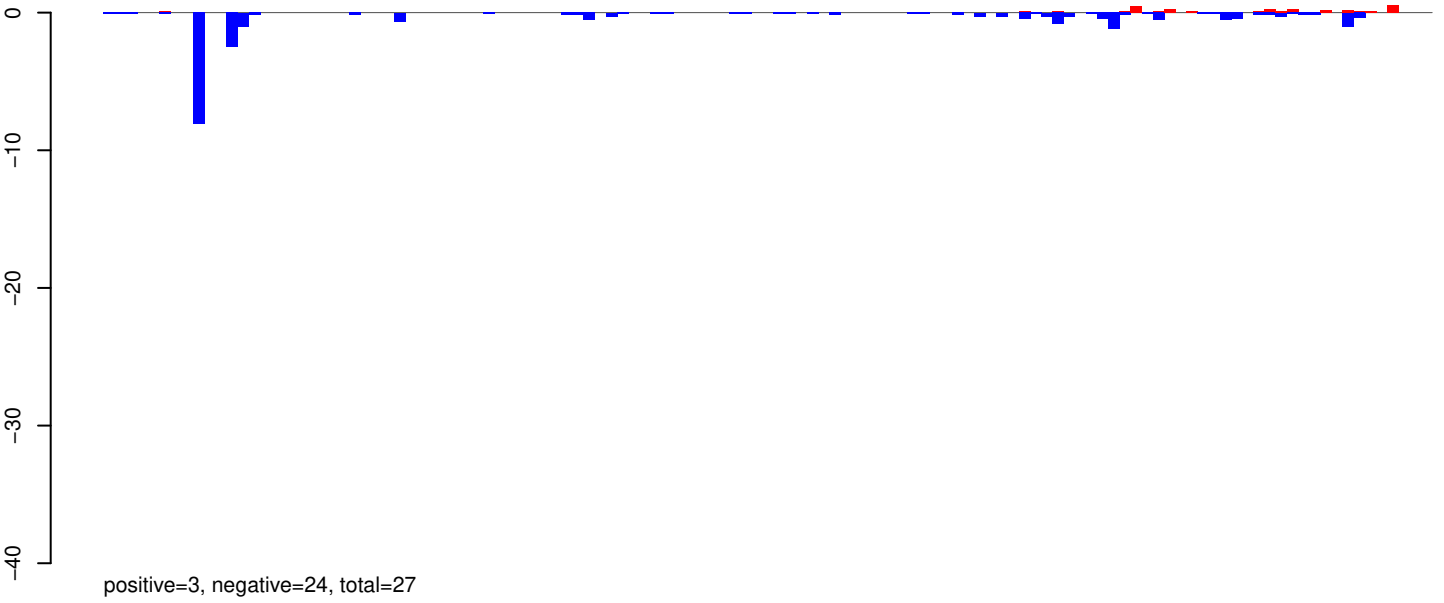
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



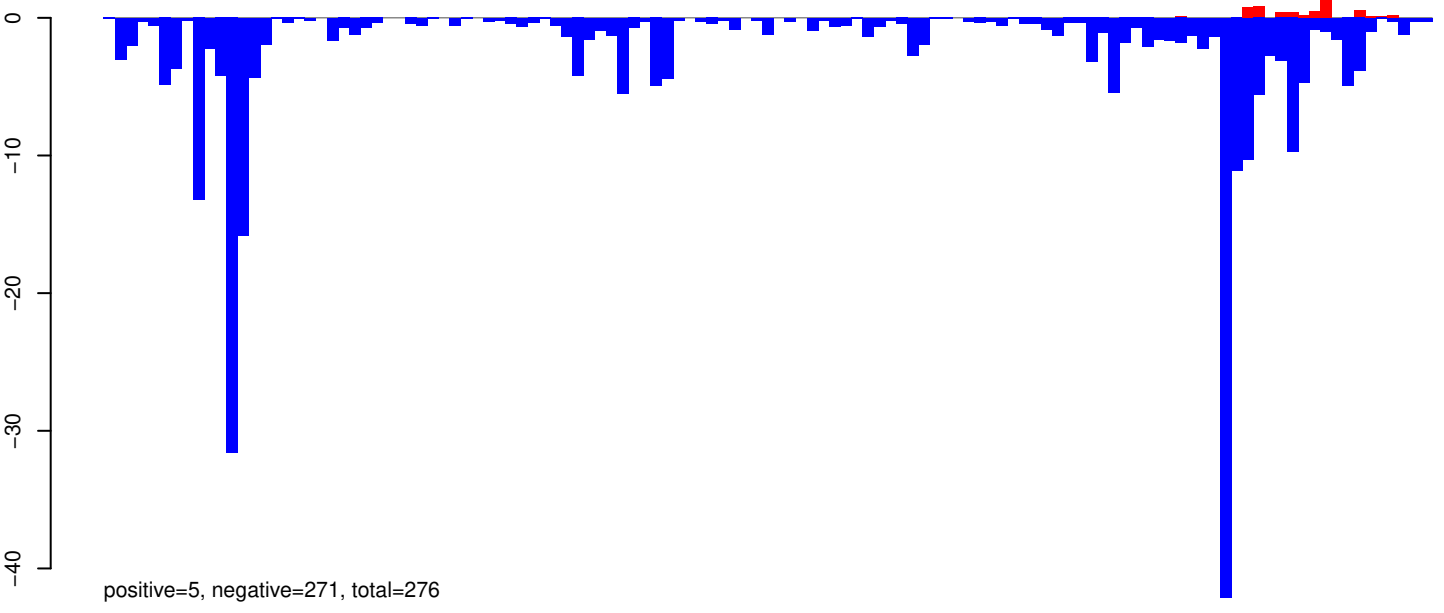
downloaded from <https://www.ncbi.nlm.nih.gov/nuccore/130410183796> - Aedes albopictus\_C6\_36\_cell\_densovirus\_non-structural\_protein\_1\_non-structural\_prot:1-4006

0 1000 2000 3000 4000

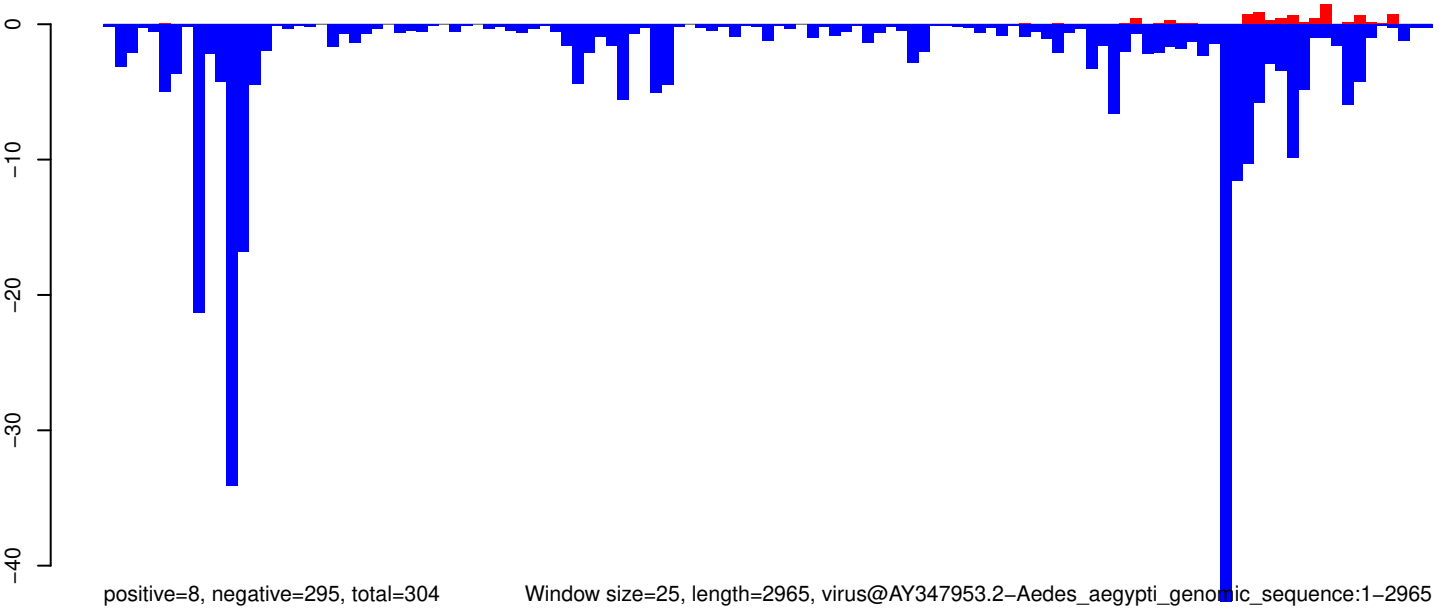
AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep



AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep



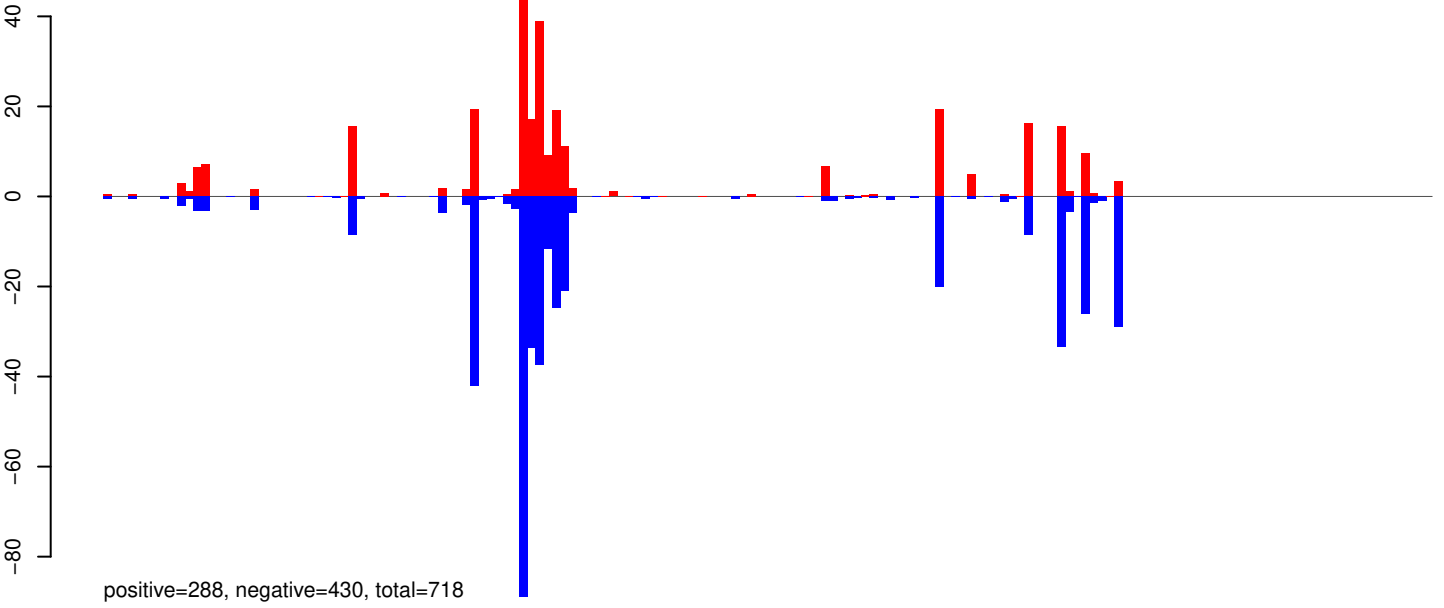
AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep



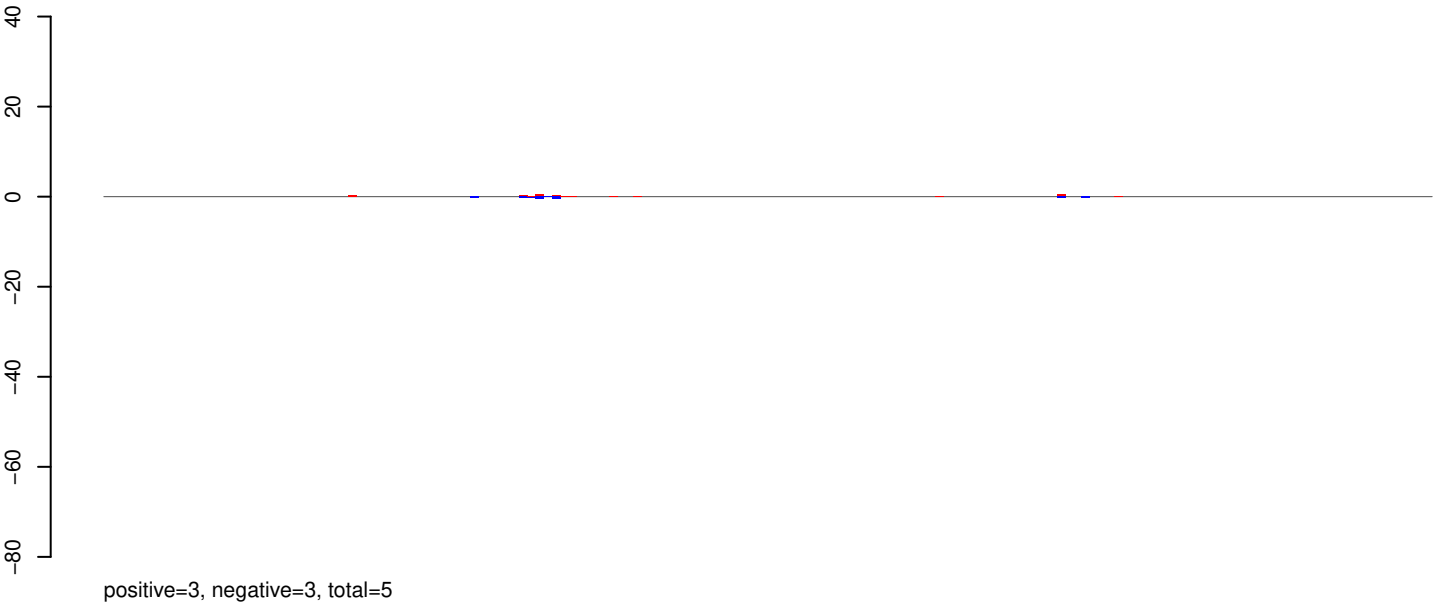
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0 500 1000 1500 2000 2500 3000

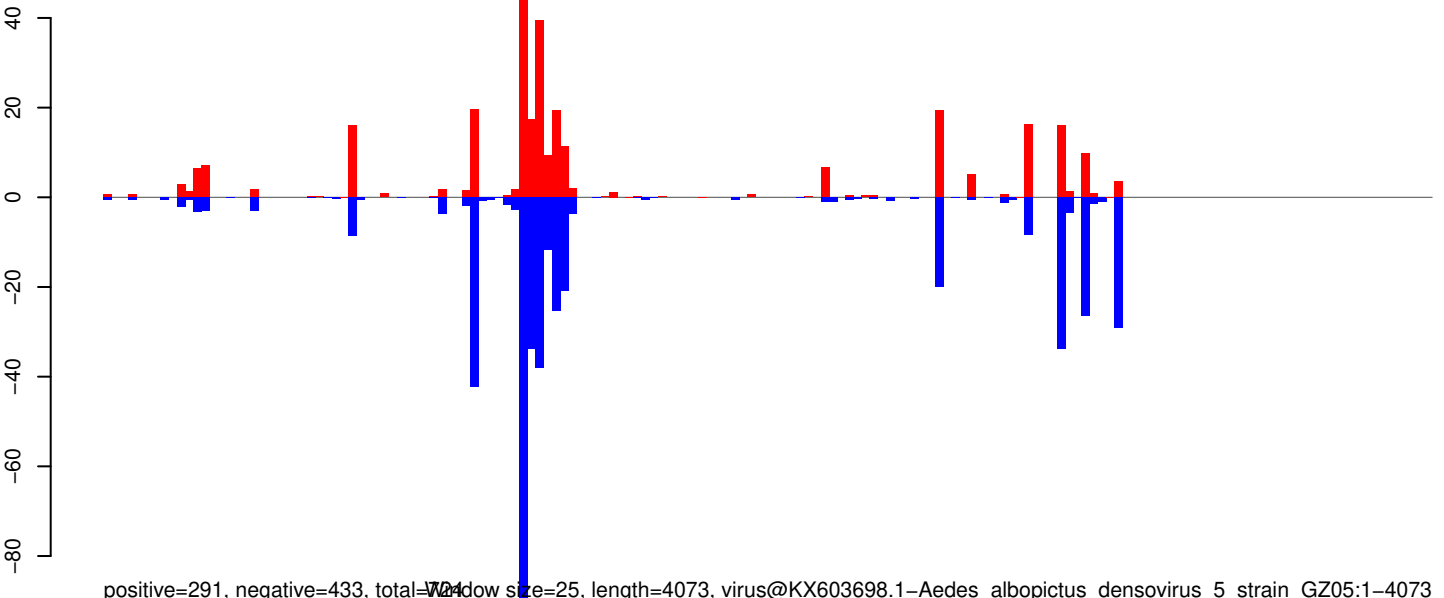
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



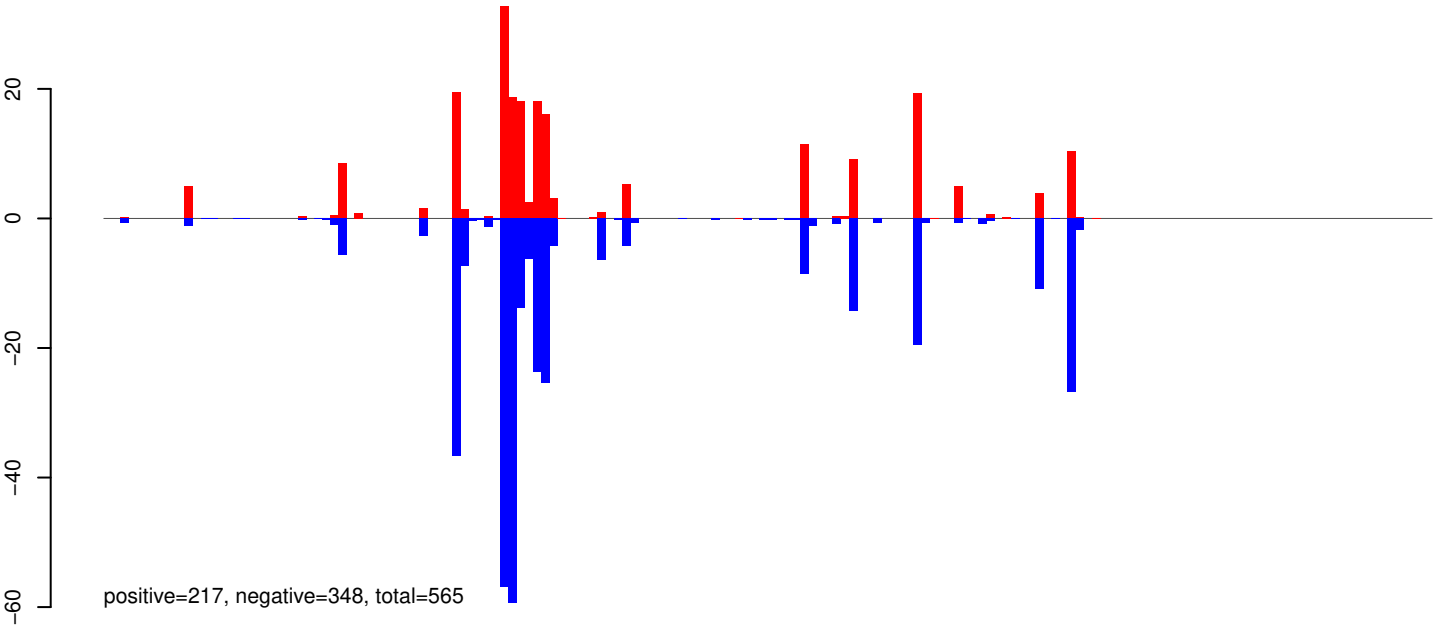
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



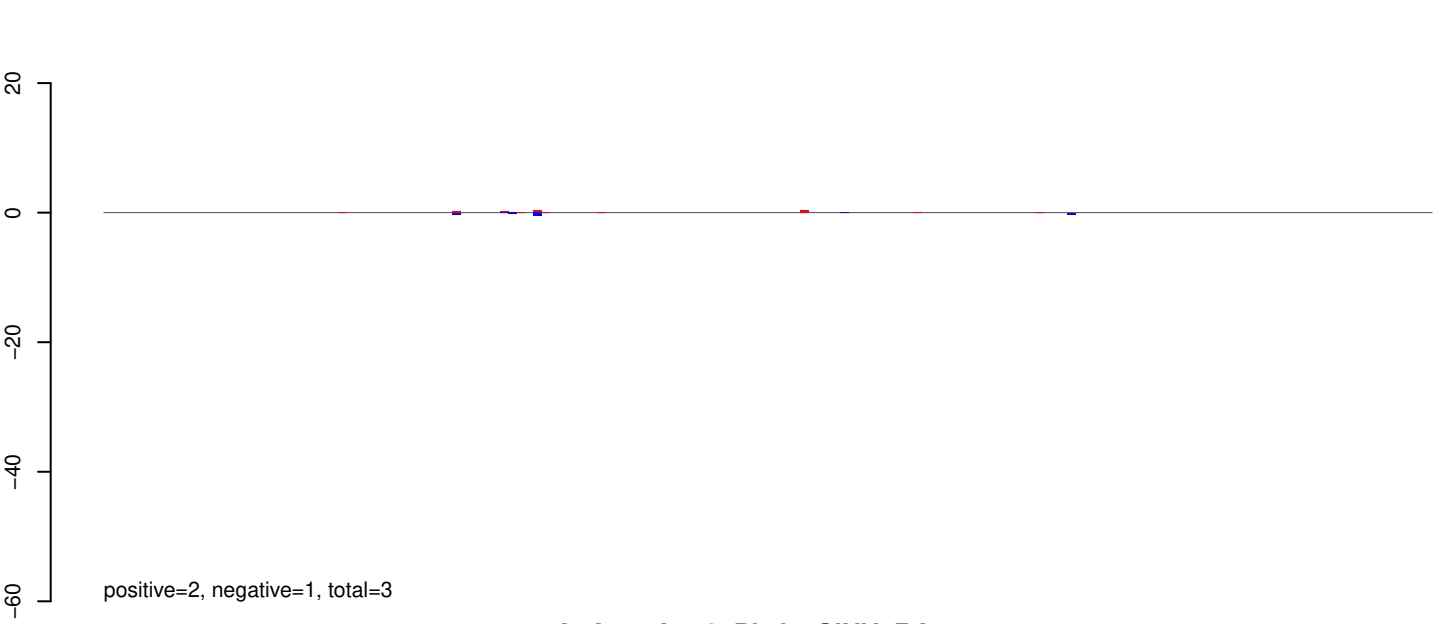
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0 1000 2000 3000 4000

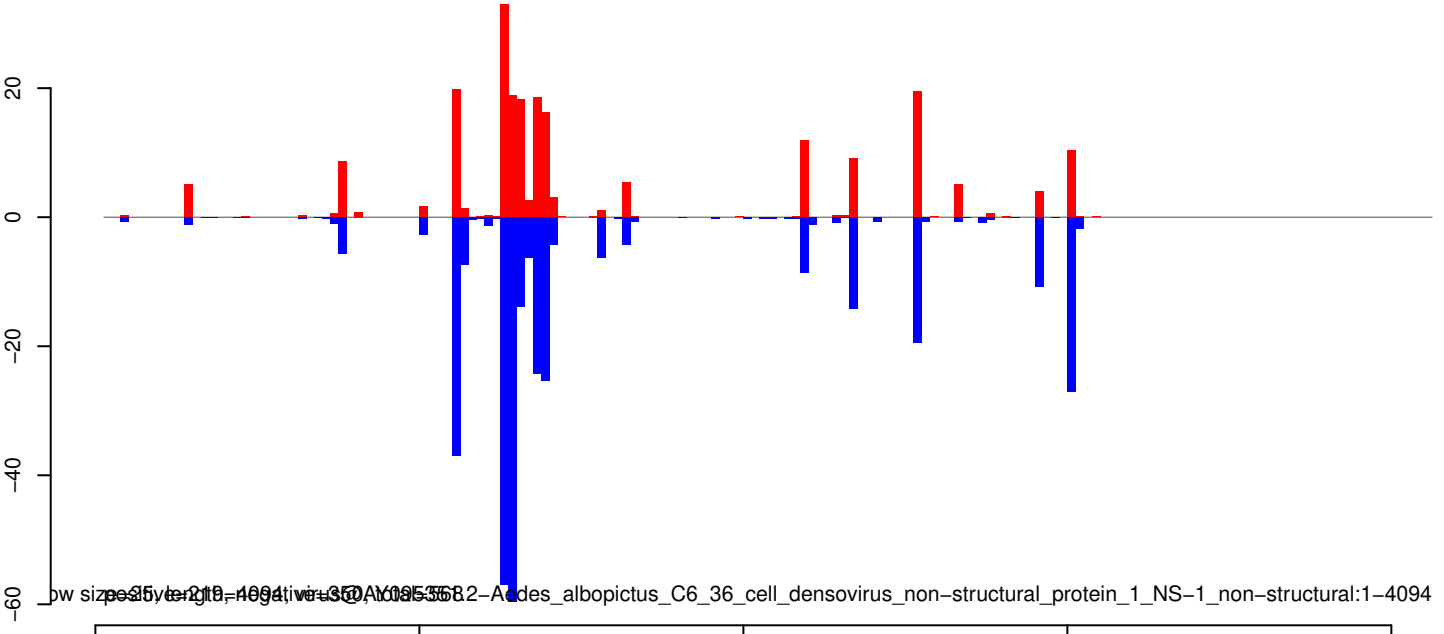
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



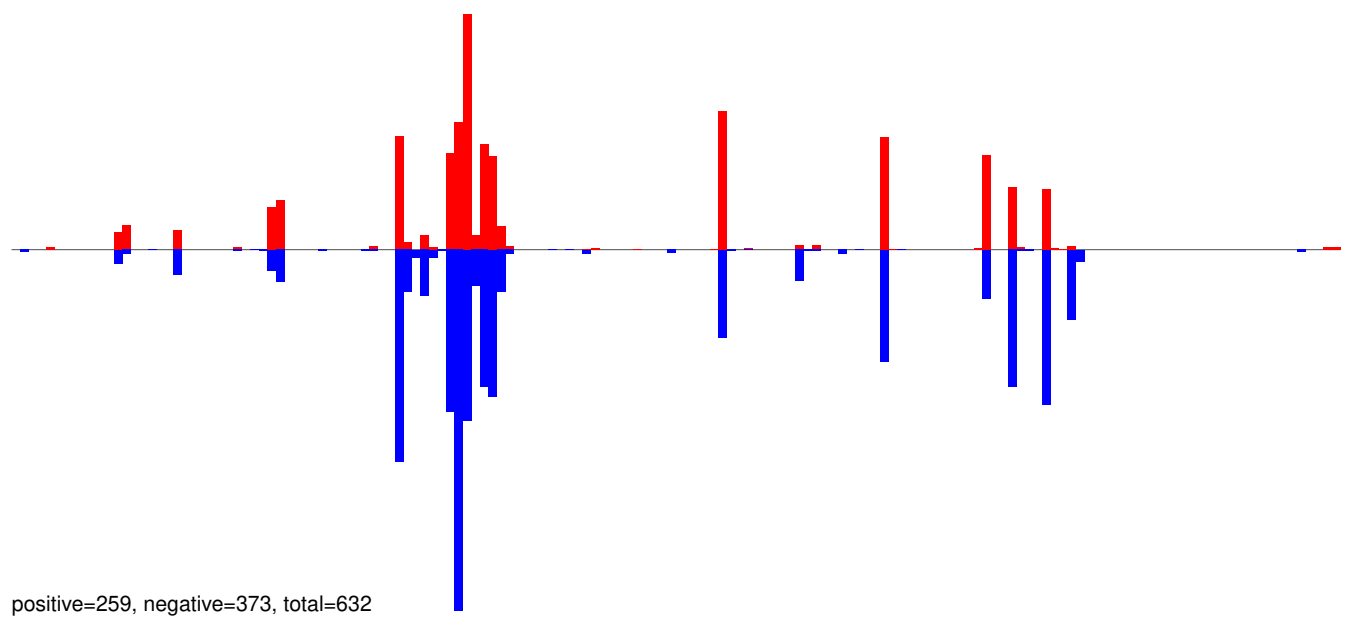
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



bow size=218, total=4094, positive=350, negative=3582-Aedes albopictus\_C6\_36\_cell\_densovirus\_non-structural\_protein\_1\_NS-1\_non-structural:1-4094

0 1000 2000 3000 4000

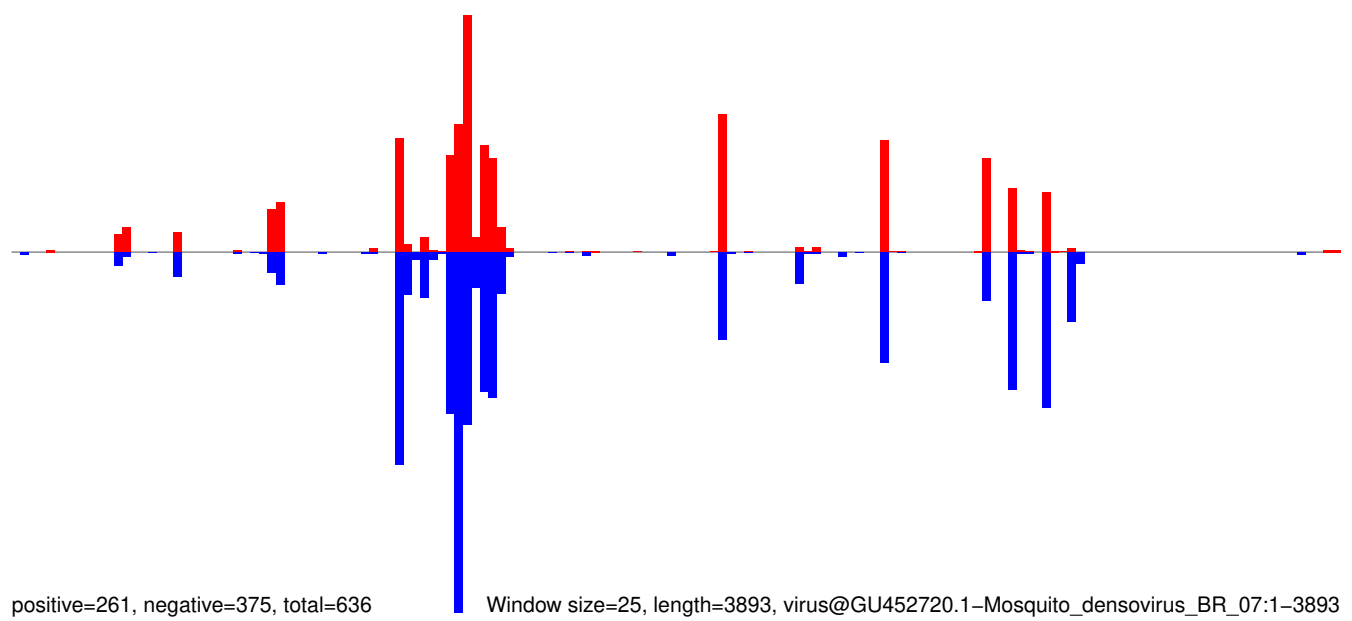
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

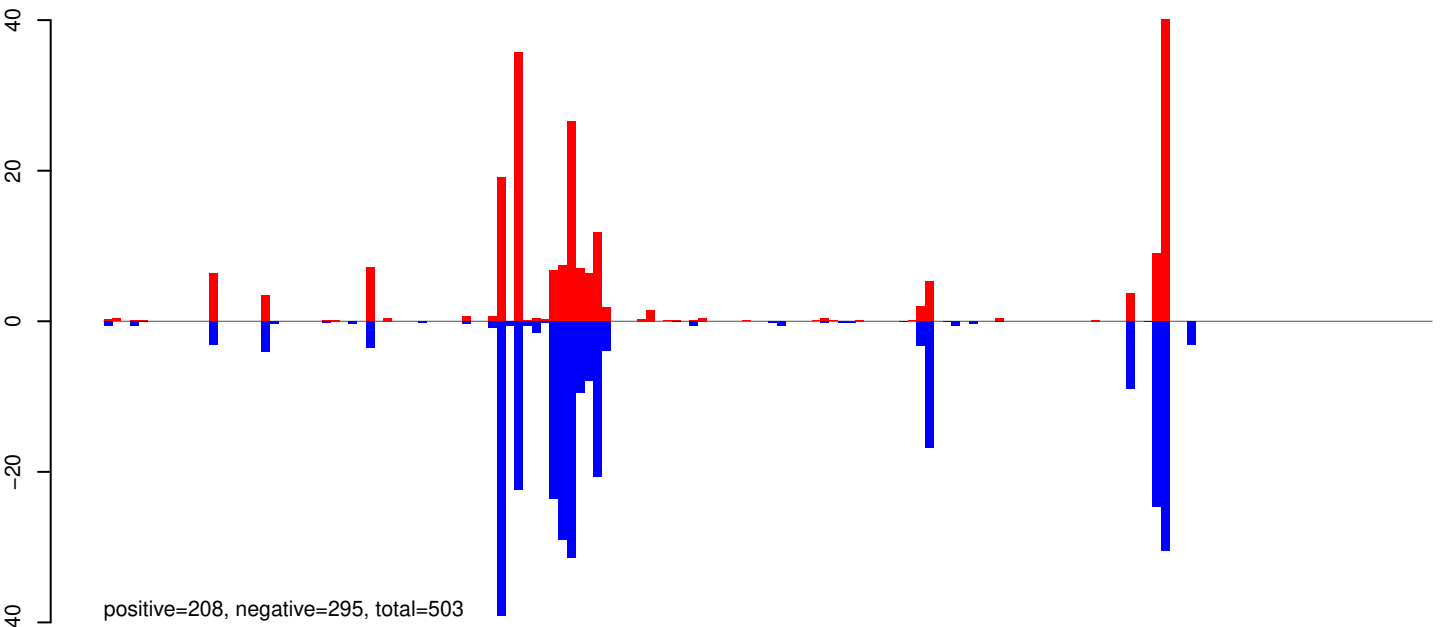


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

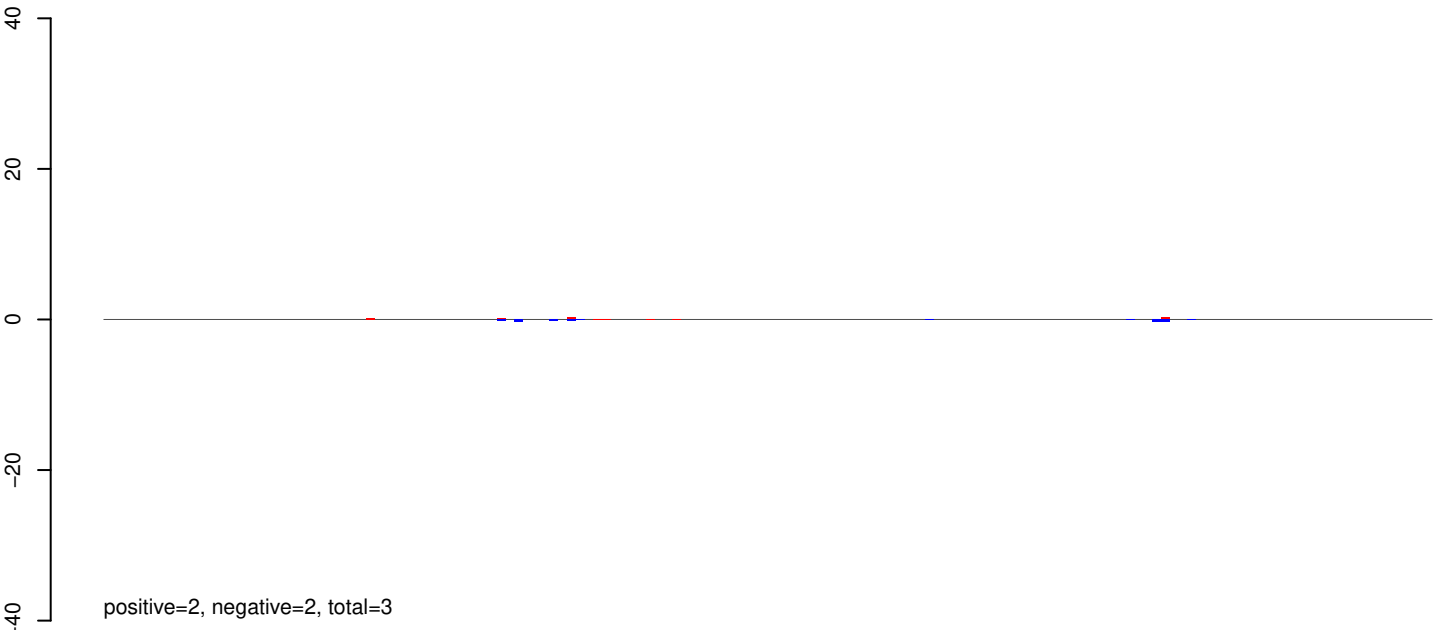


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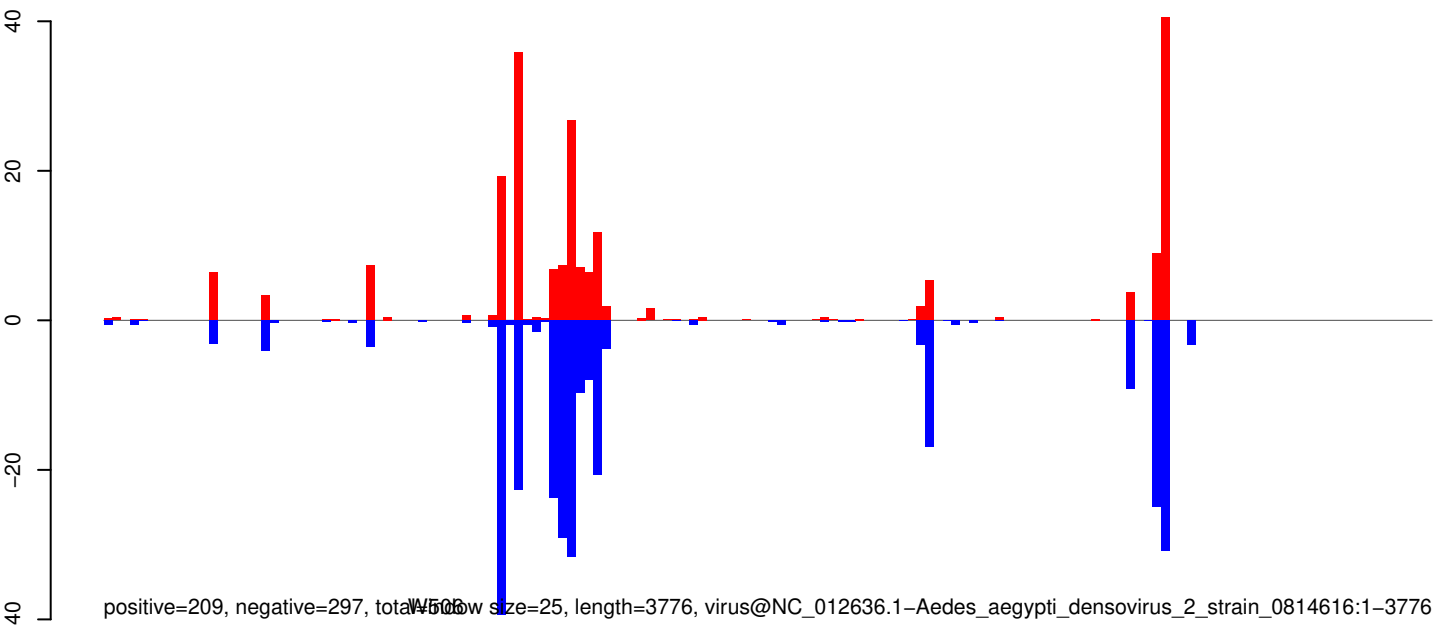
AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep



AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep



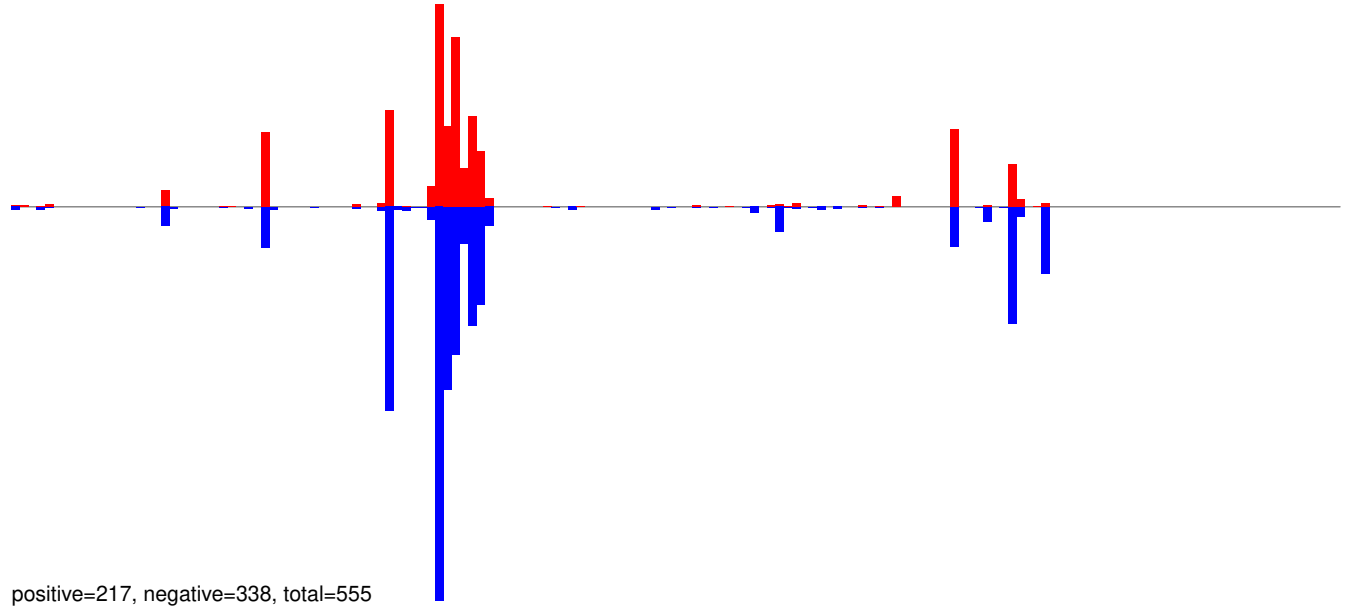
AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep



W506 size=25, length=3776, virus@NC\_012636.1-Aedes\_aegypti\_densovirus\_2\_strain\_0814616:1-3776

0 1000 2000 3000

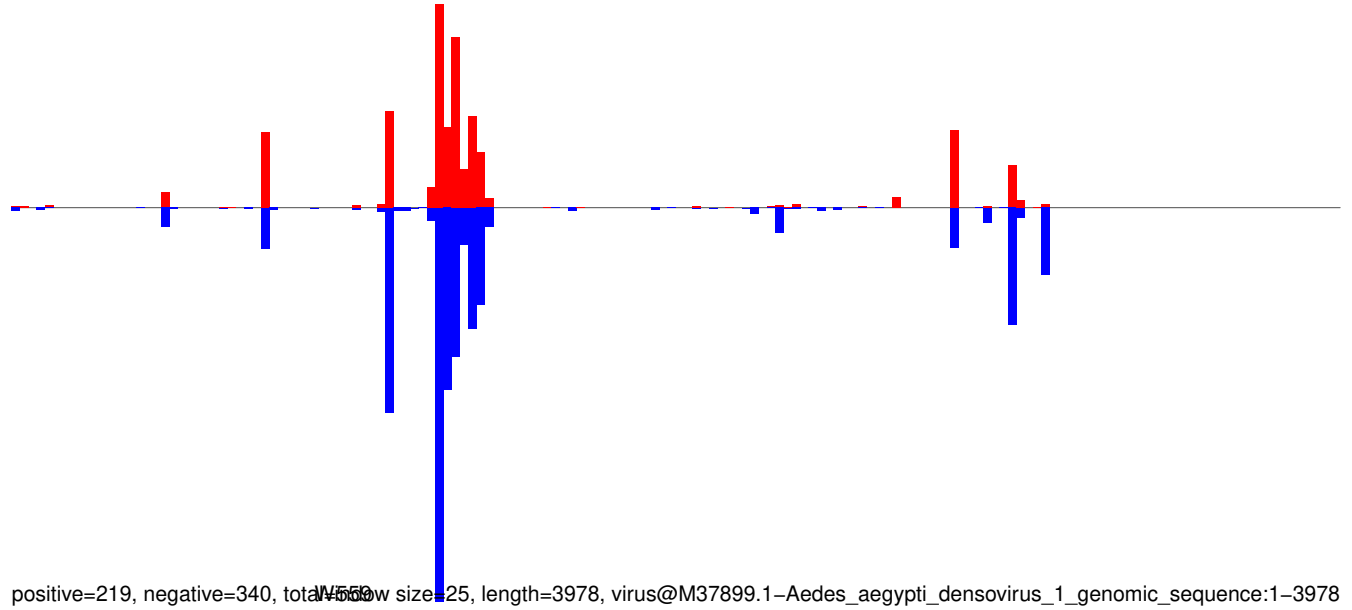
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

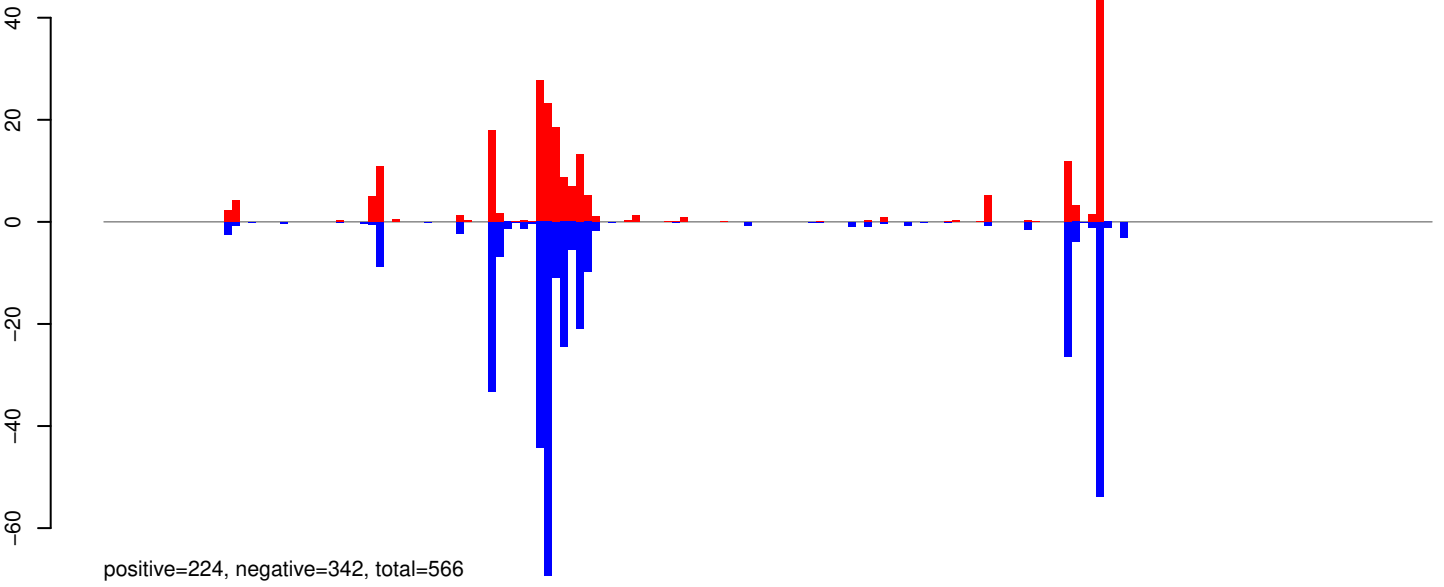


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



0 1000 2000 3000 4000

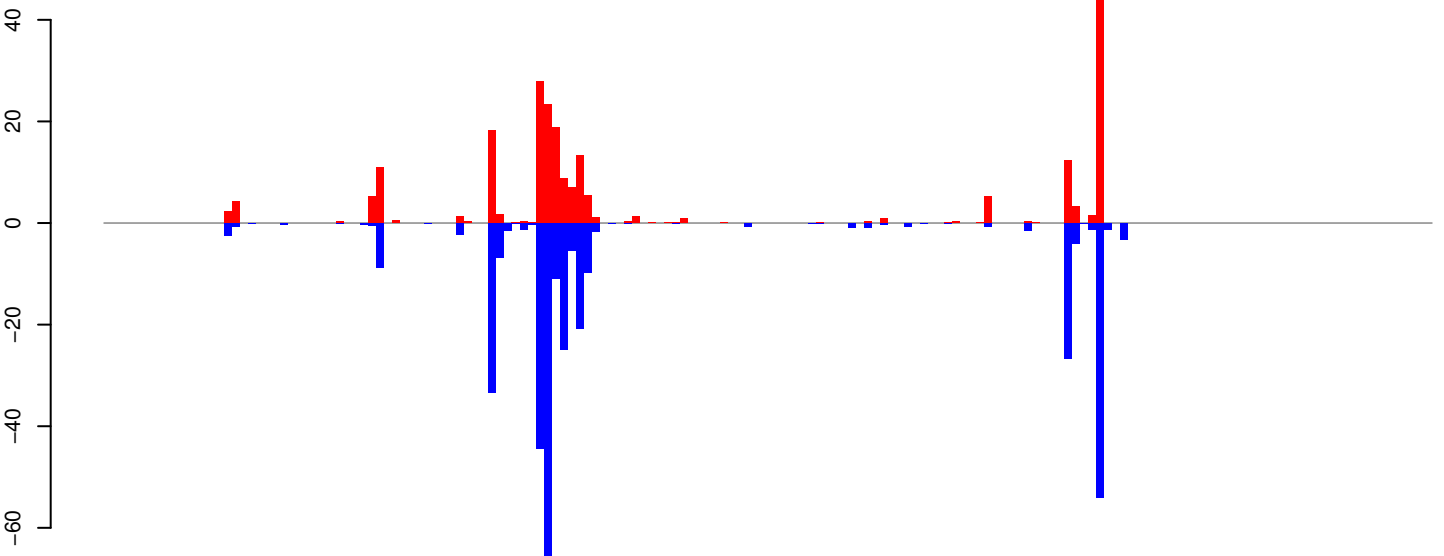
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

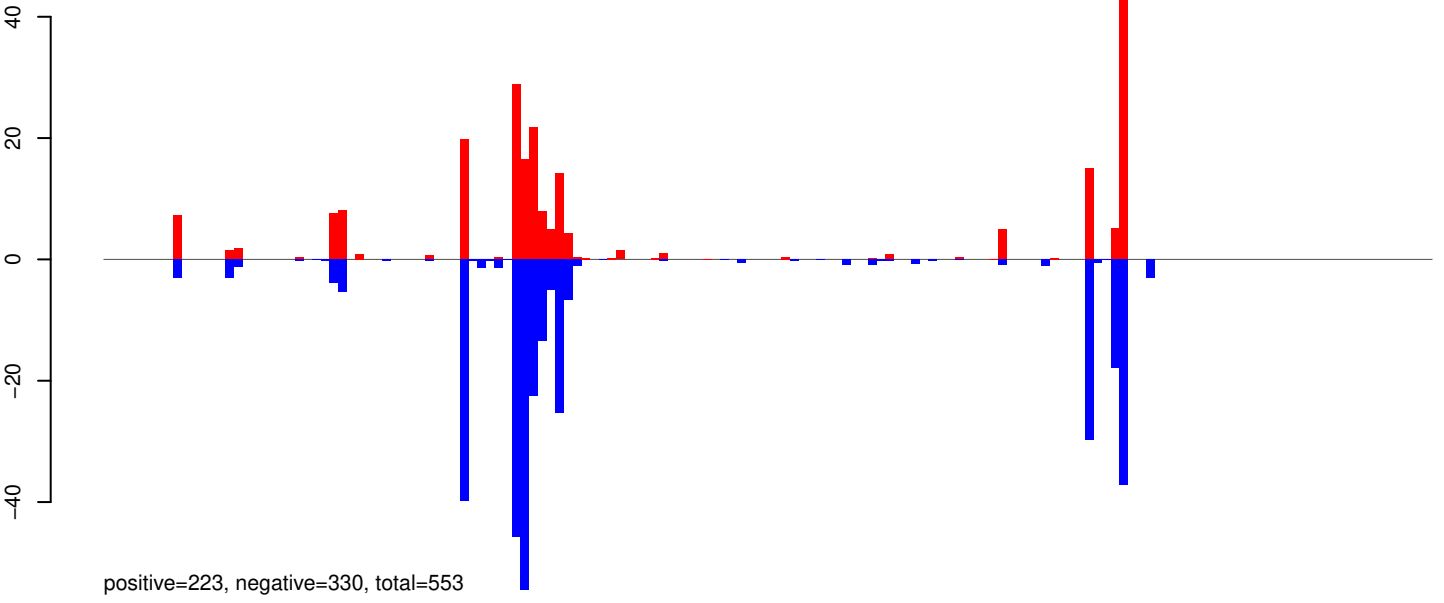


Window size=25, length=4139, virus@NC\_011317.1-Anopheles\_gambiae\_densonucleosis\_virus:1-4139

0 1000 2000 3000 4000



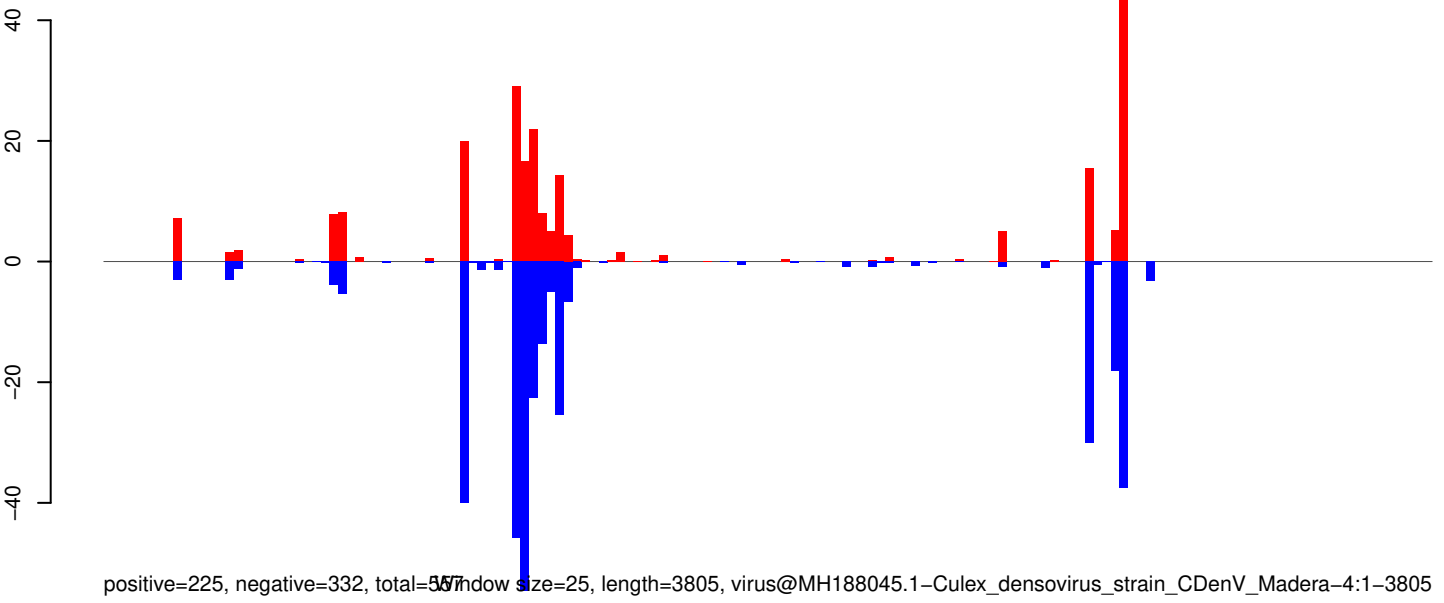
AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep



AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep



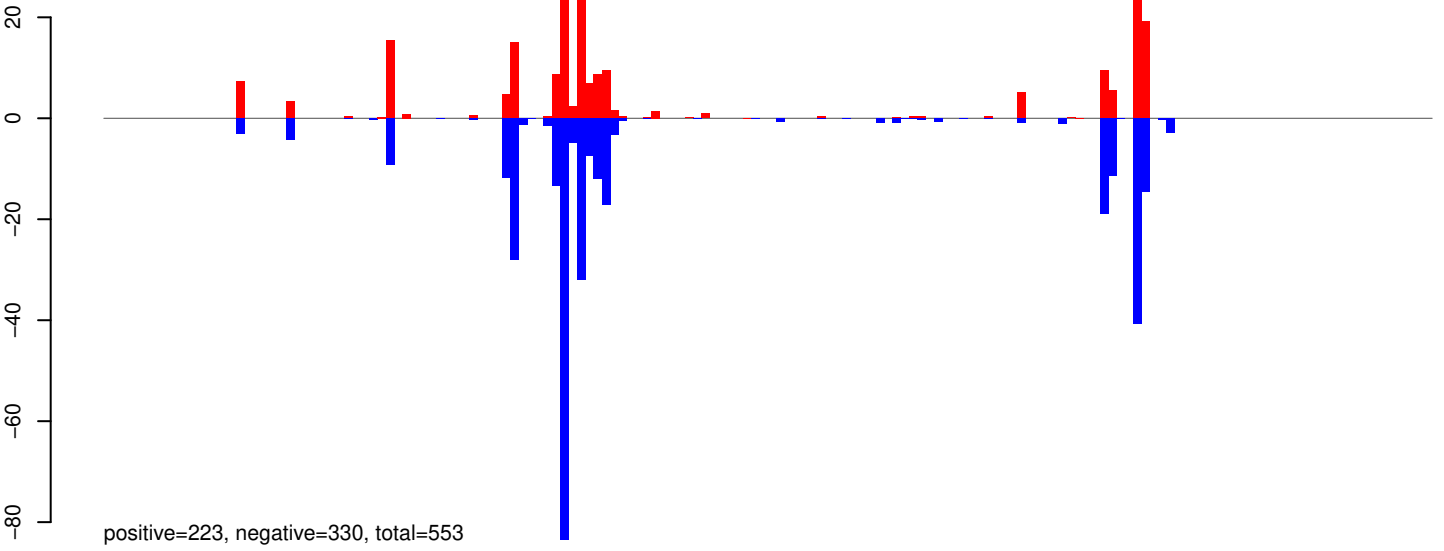
AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep



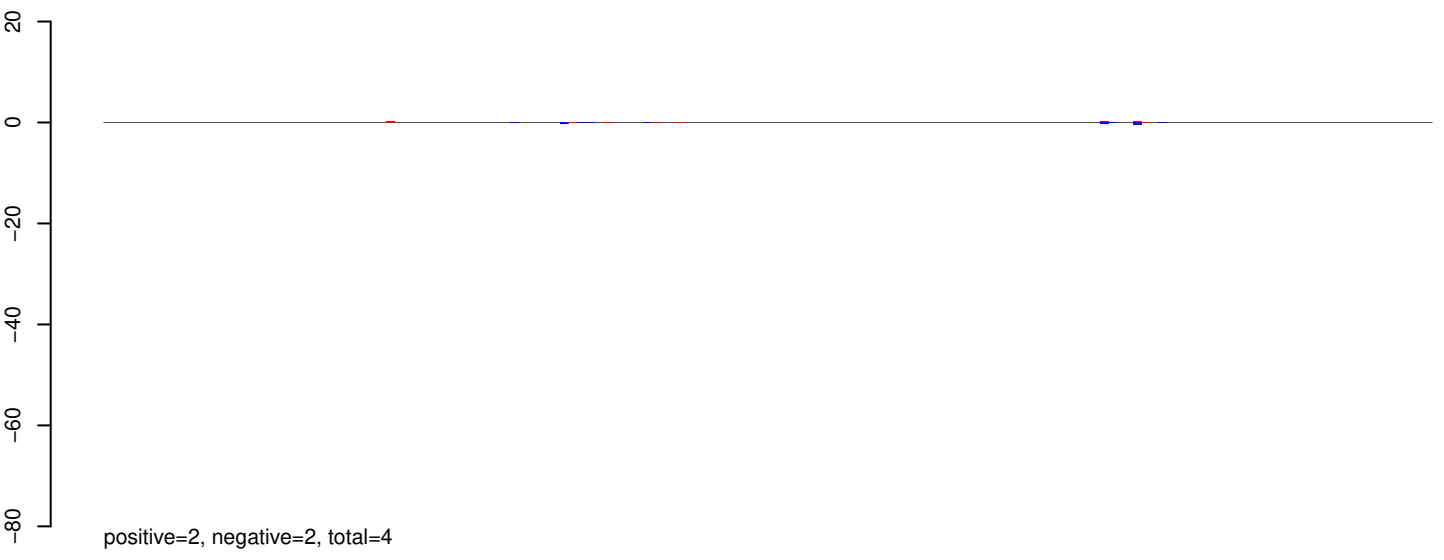
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0 1000 2000 3000 4000

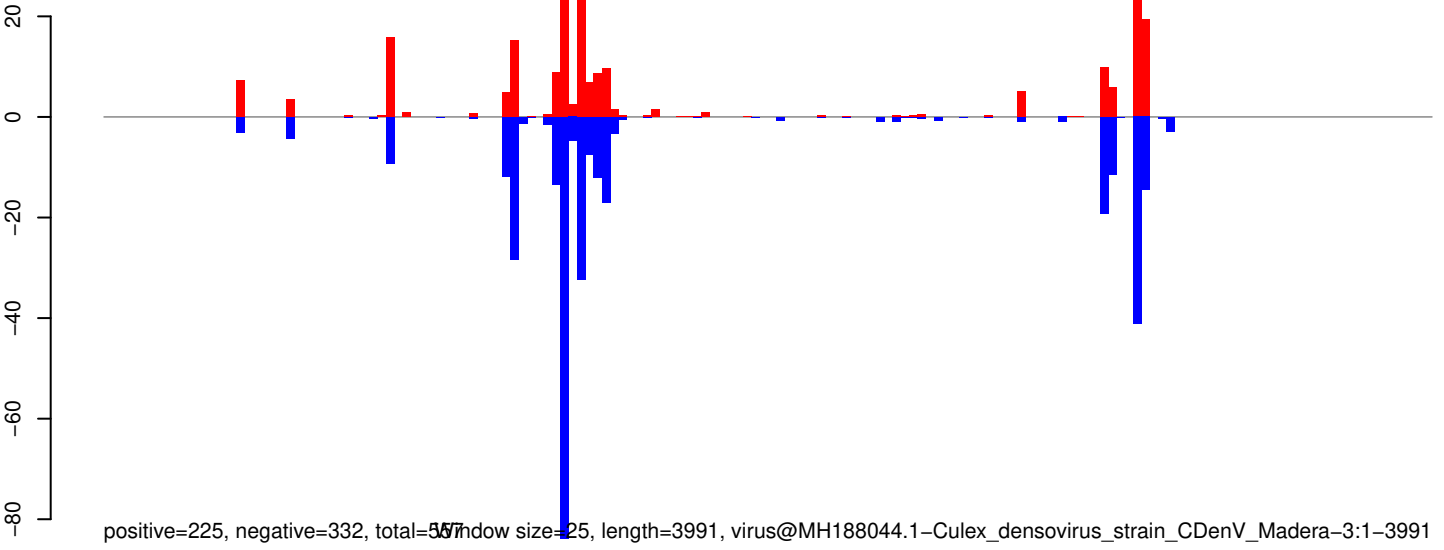
AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep



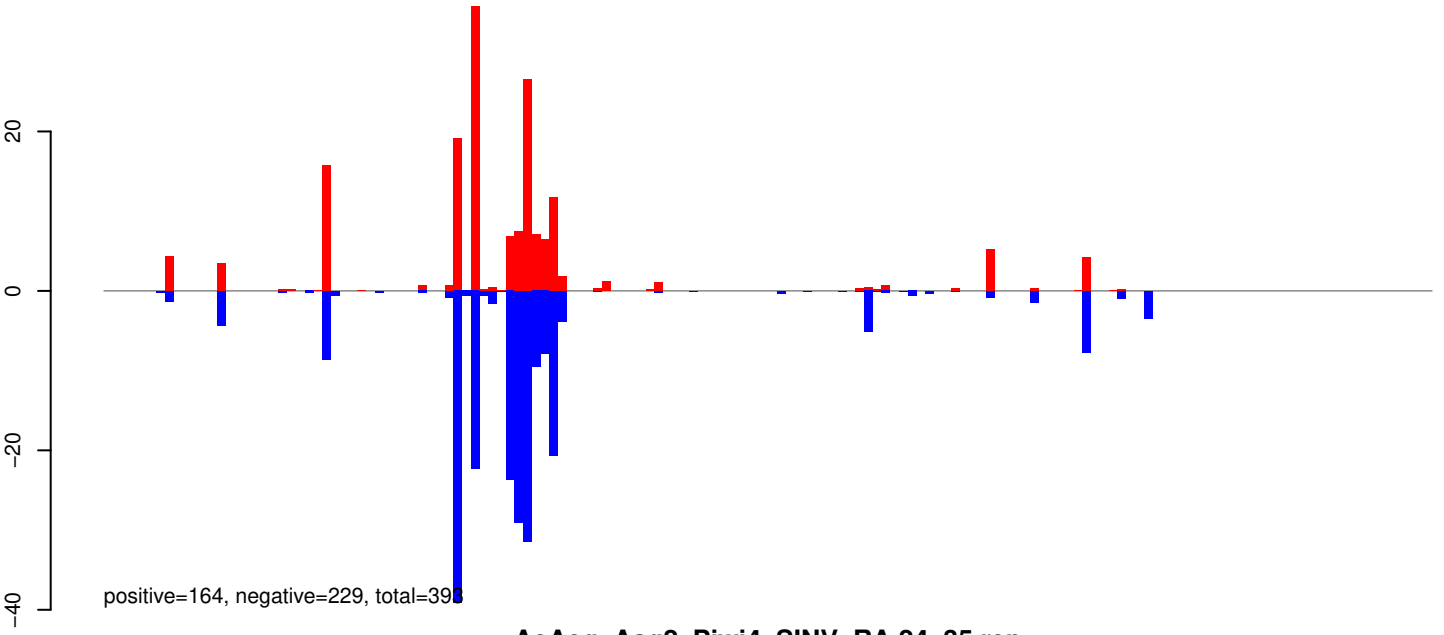
AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep



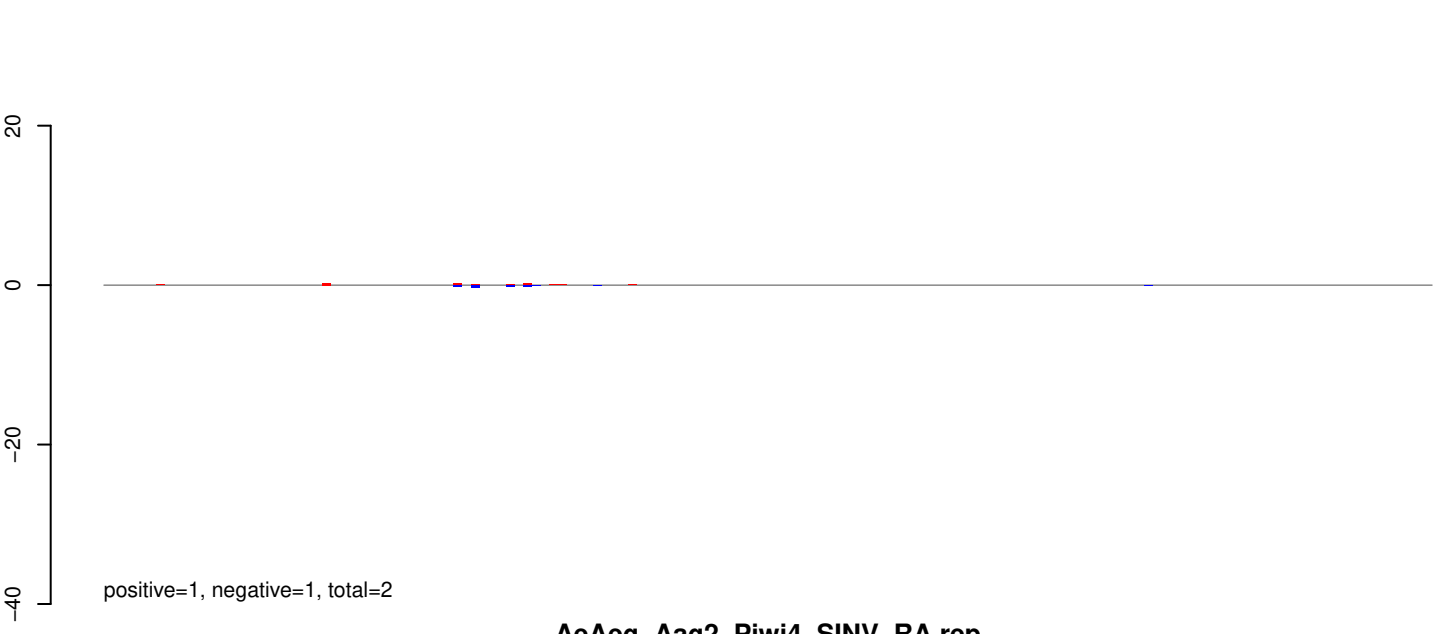
AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep



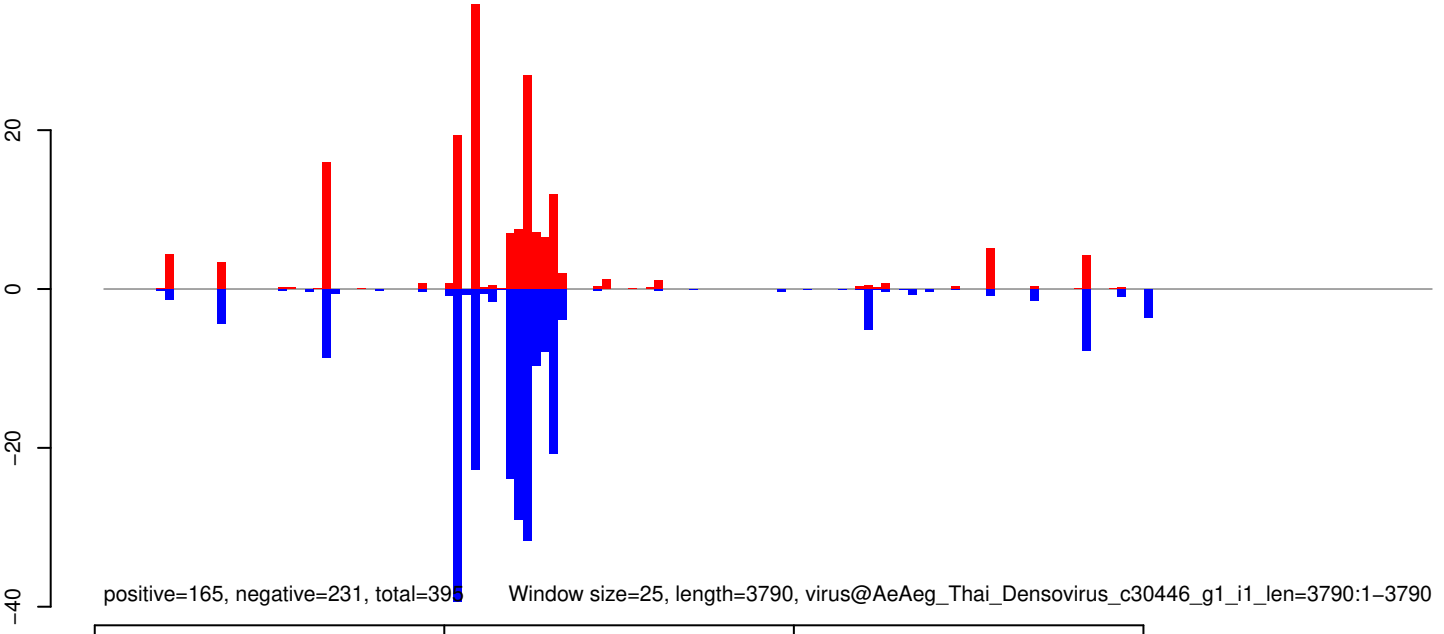
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



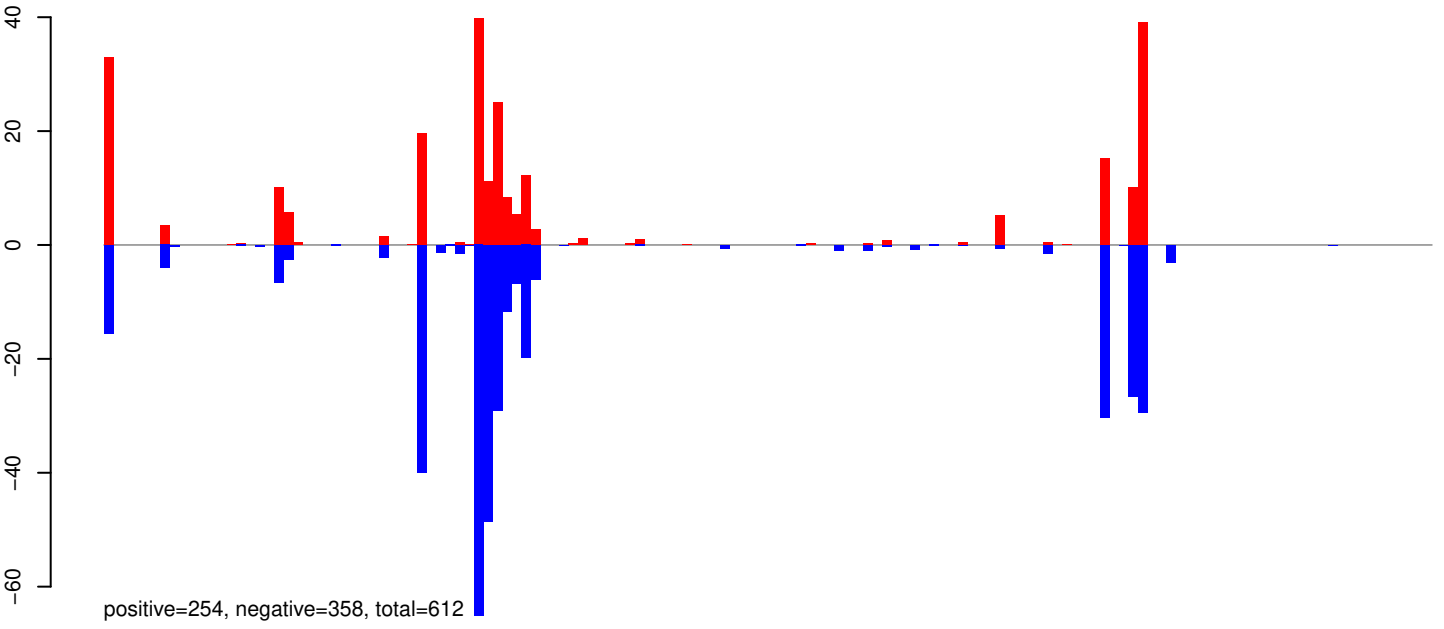
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



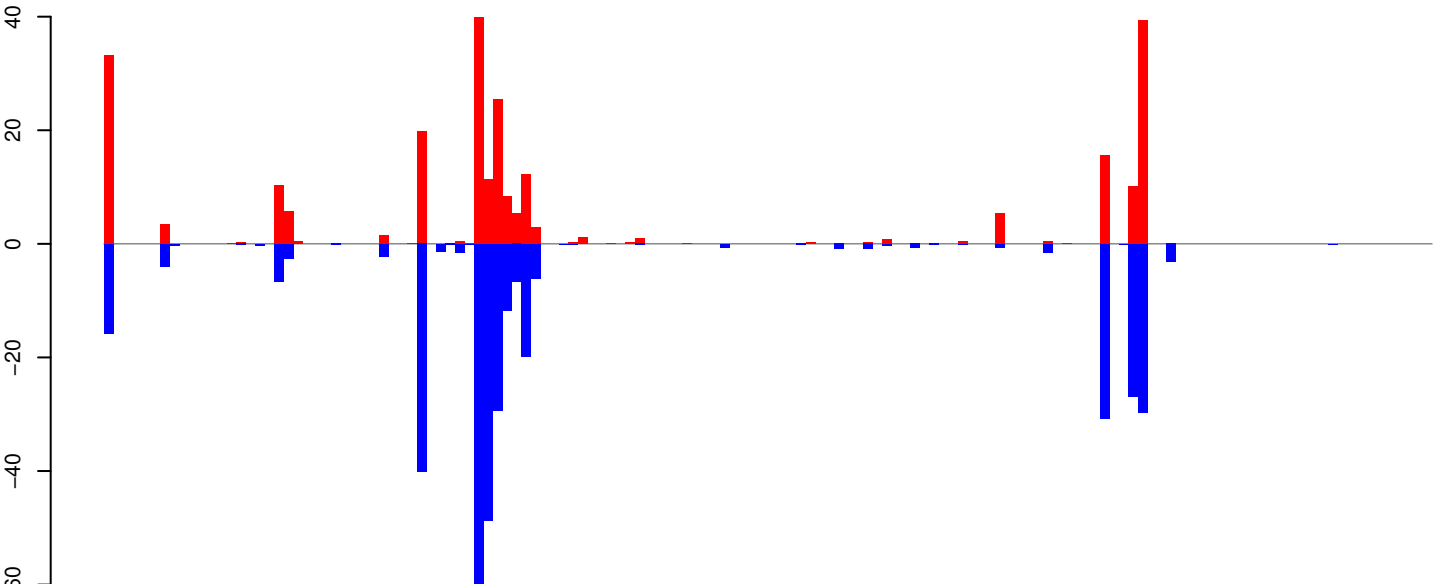
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



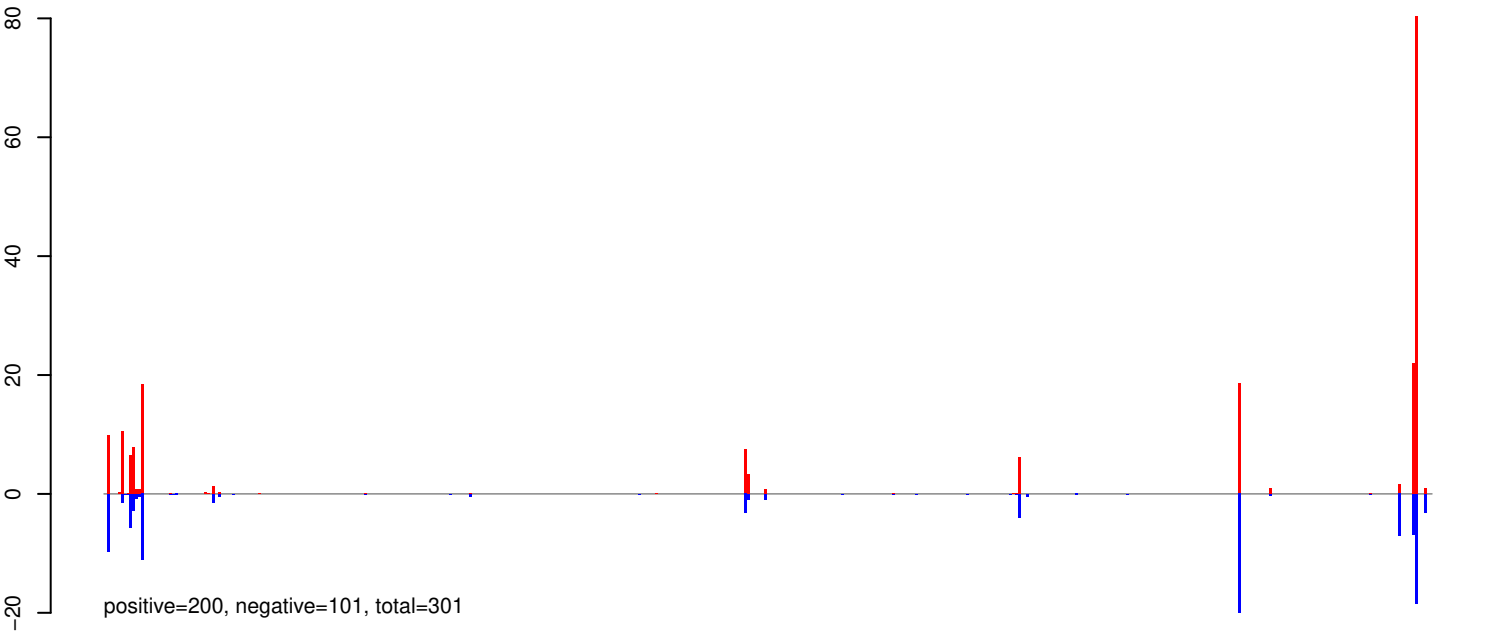
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



row size=25, col size=3498, total=90156, B579557.1-Culex pipiens pallens densovirus strain JZ-16 non-structural protein\_1\_NS1\_non-stru:1-3498

0 500 1000 1500 2000 2500 3000 3500

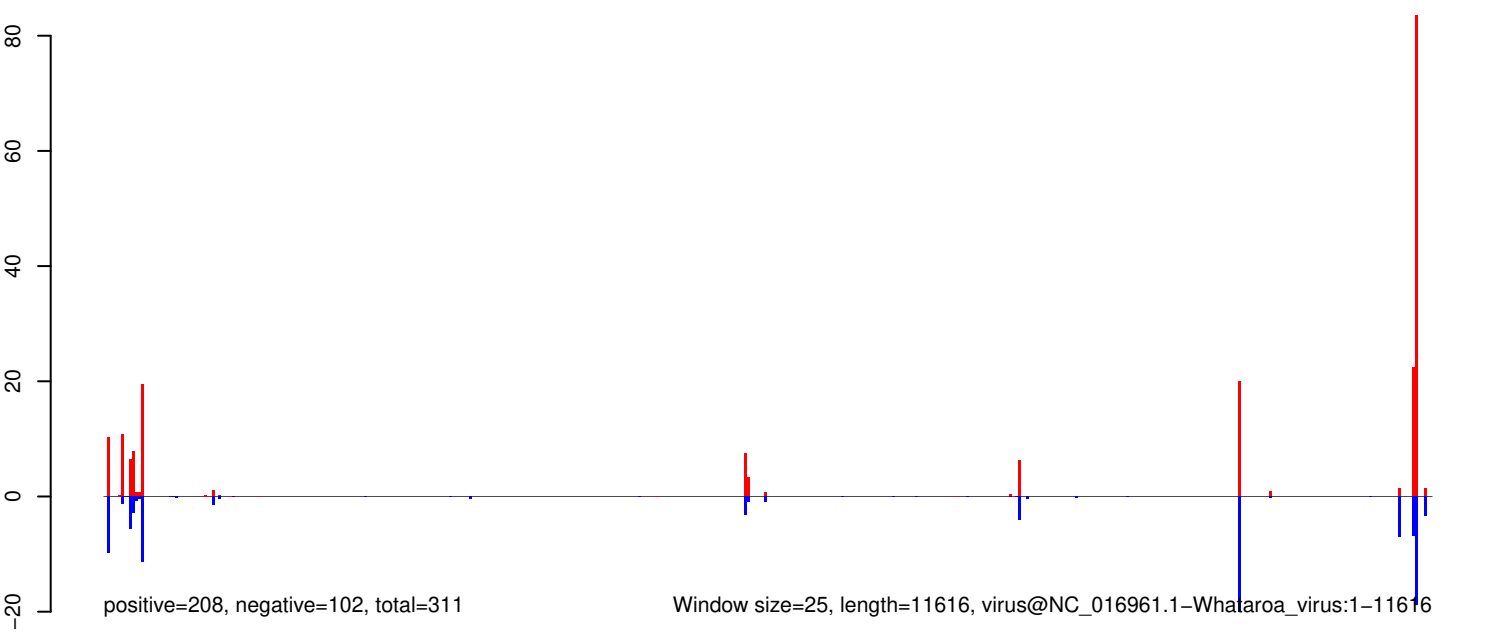
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



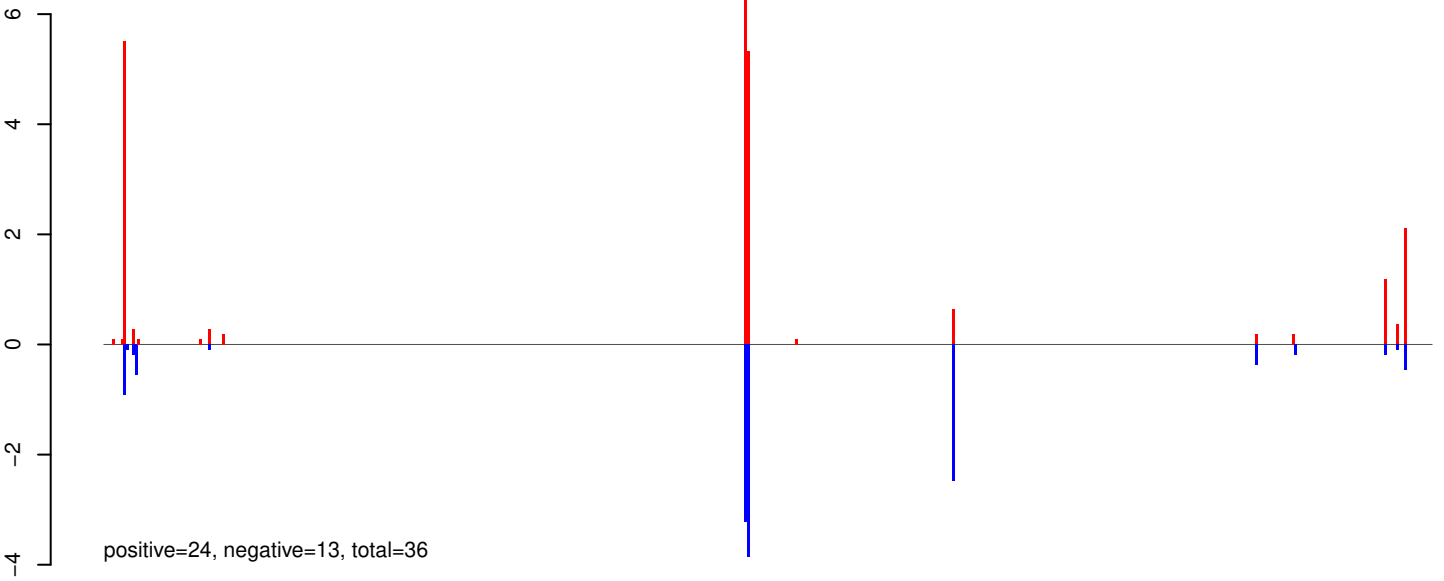
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



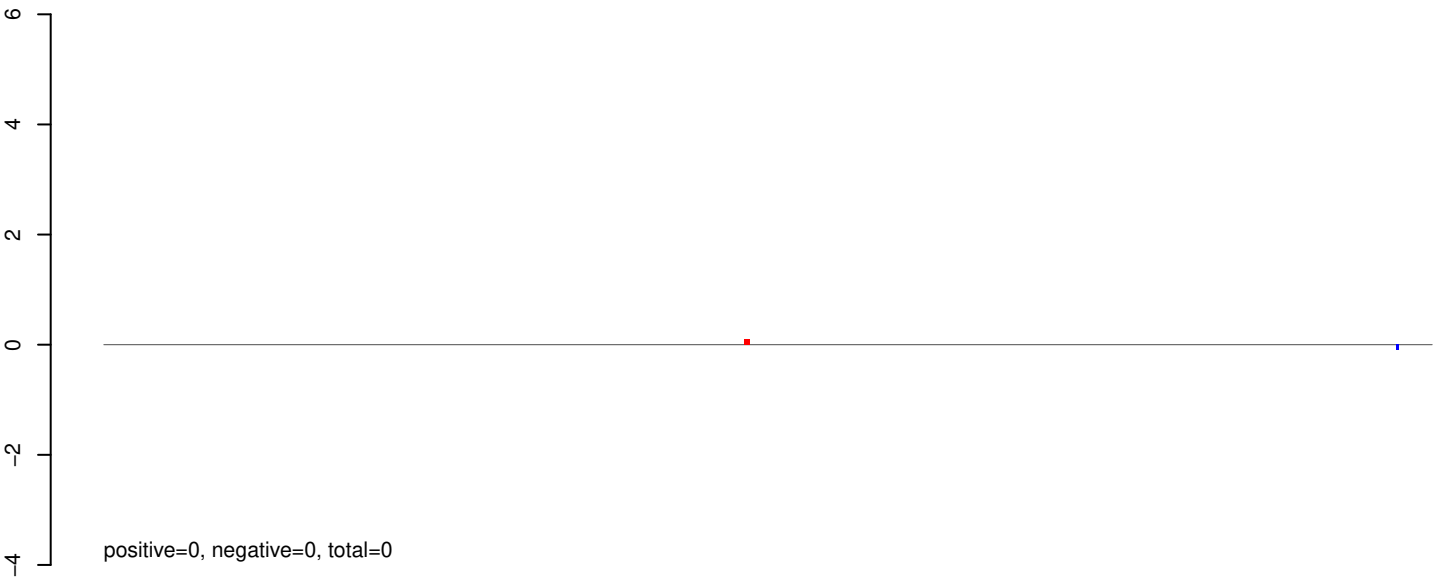
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



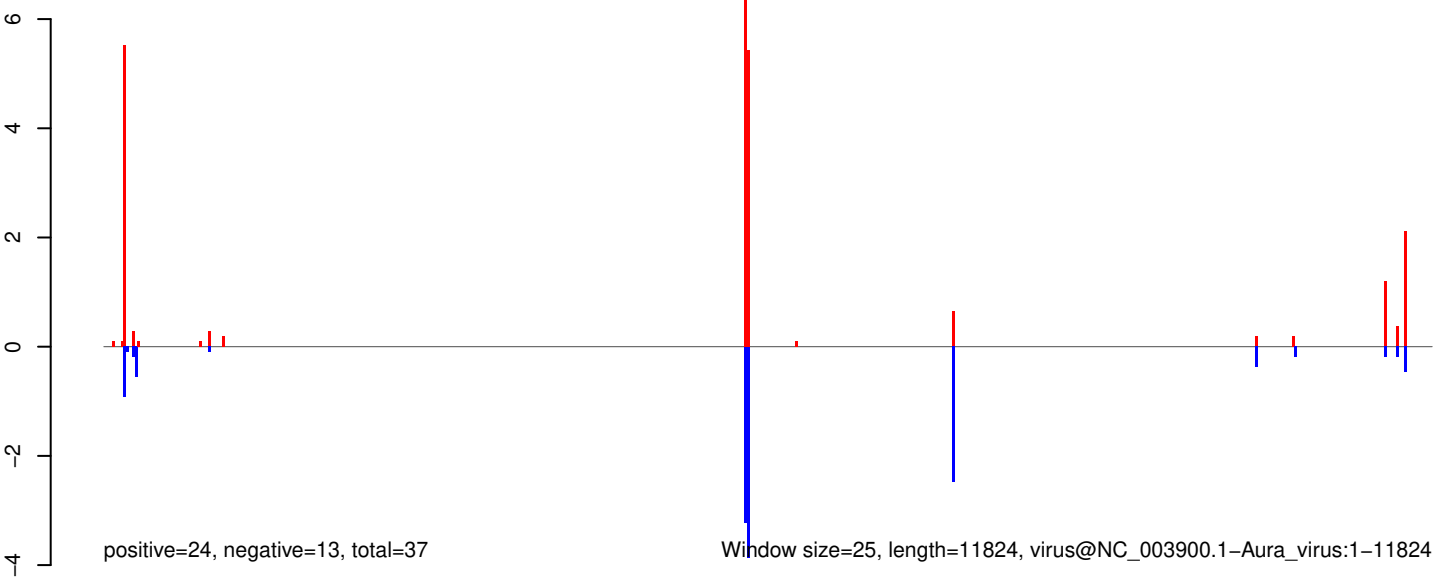
AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep



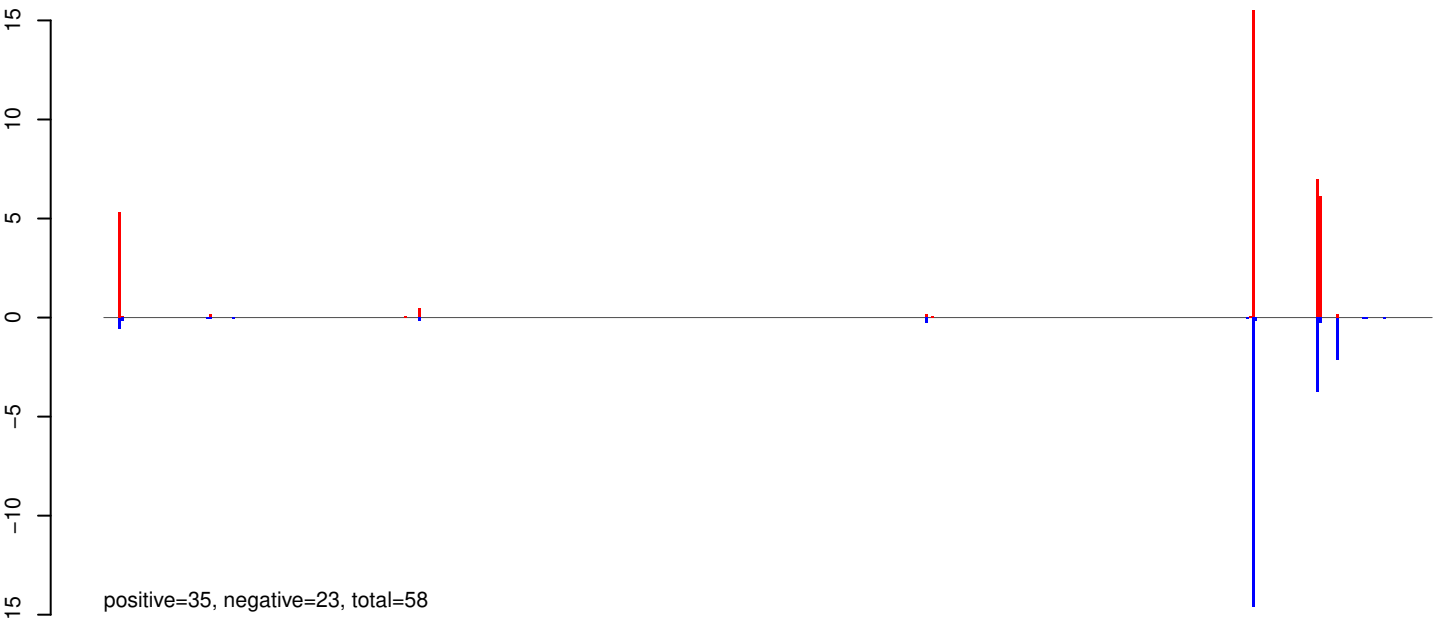
AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep



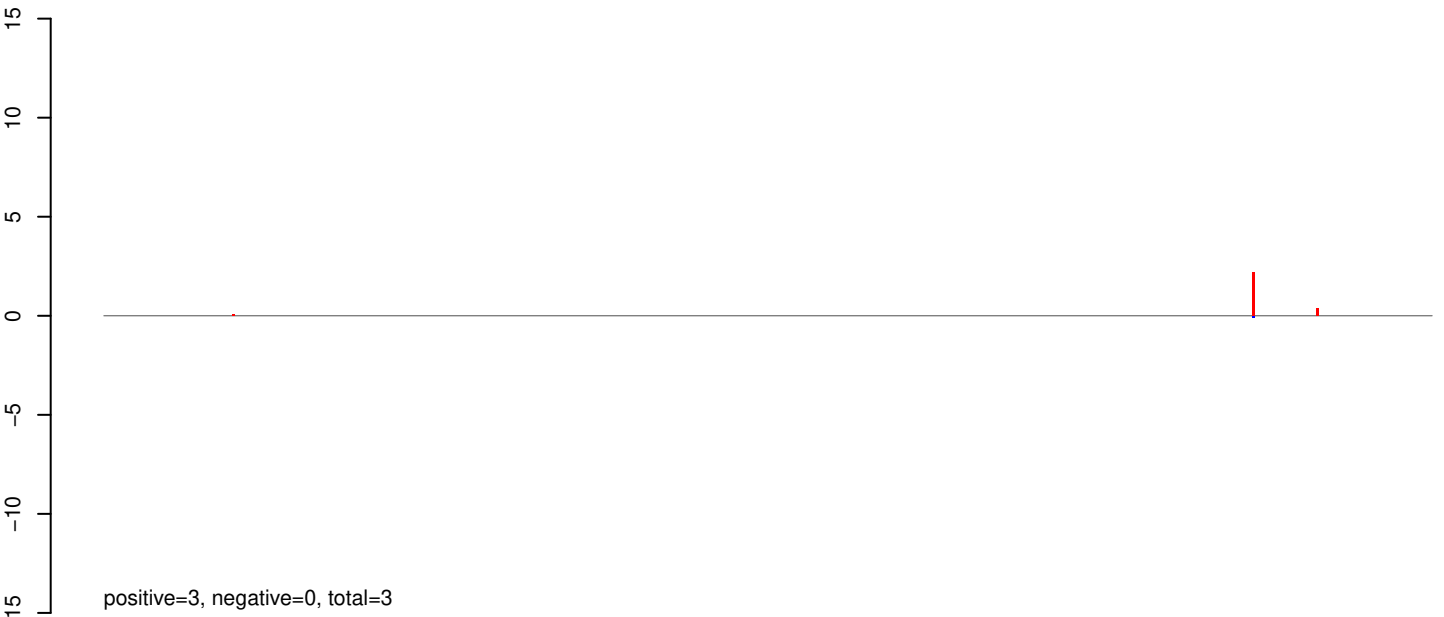
AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep



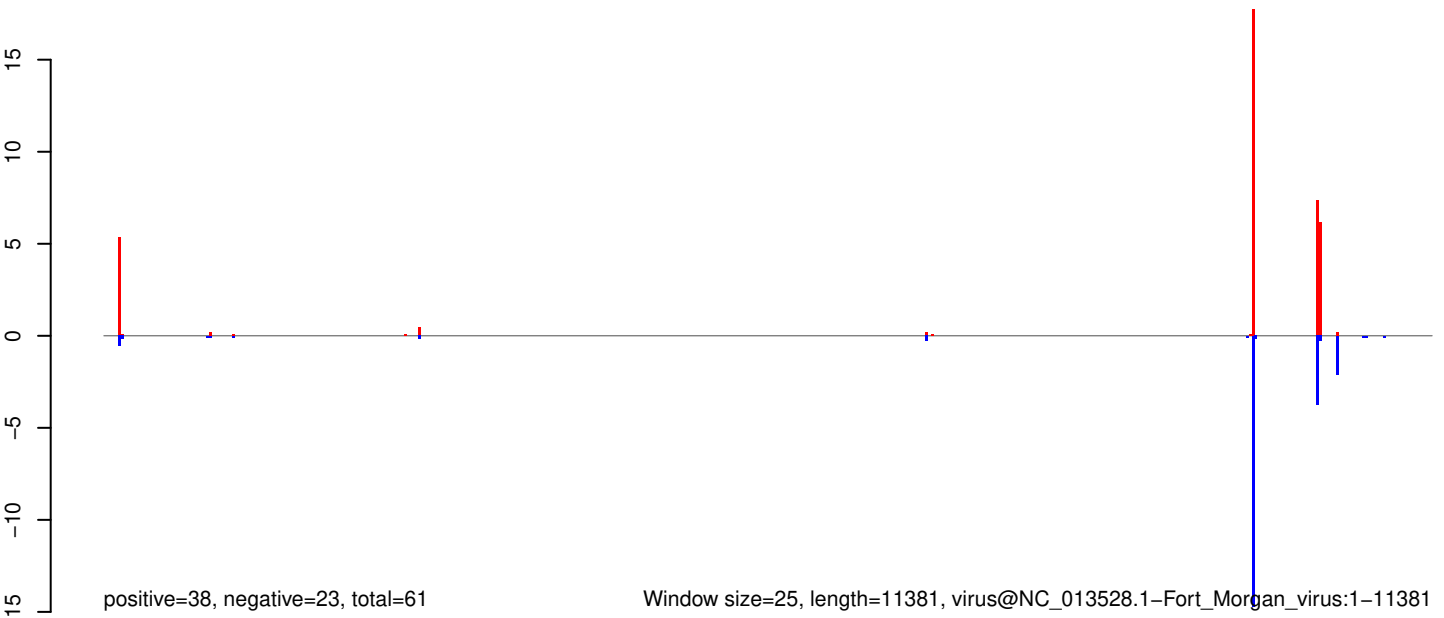
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

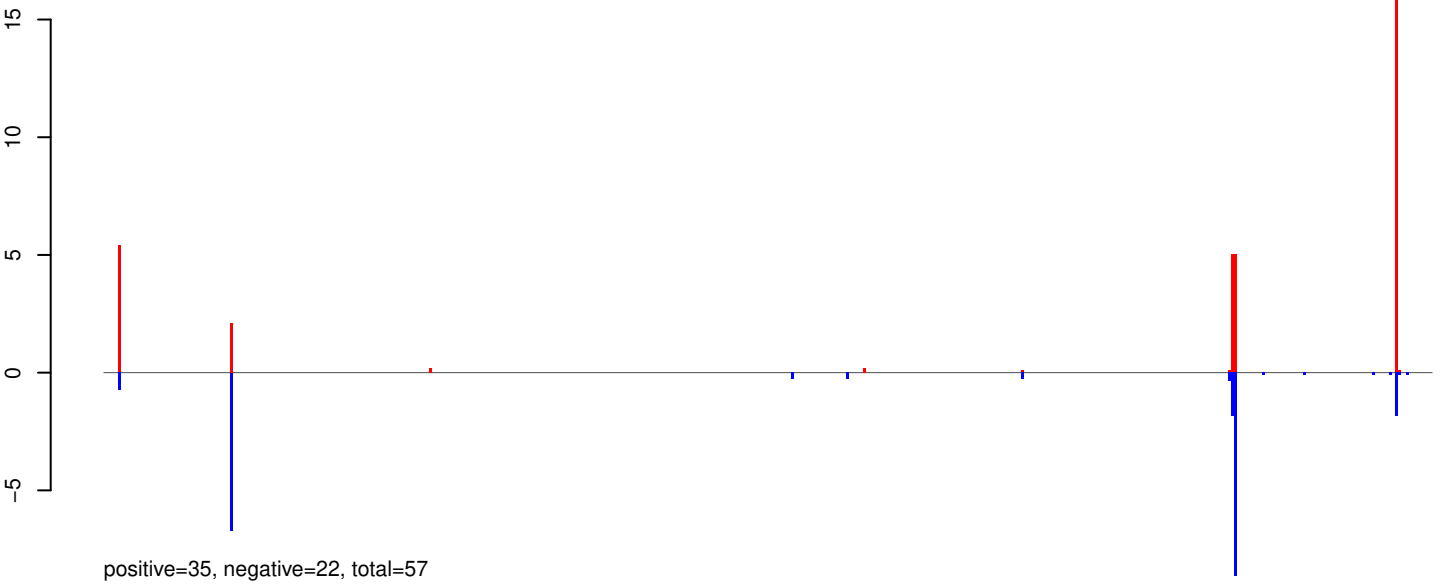


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



Window size=25, length=11381, virus@NC\_013528.1-Fort\_Morgan\_virus:1-11381

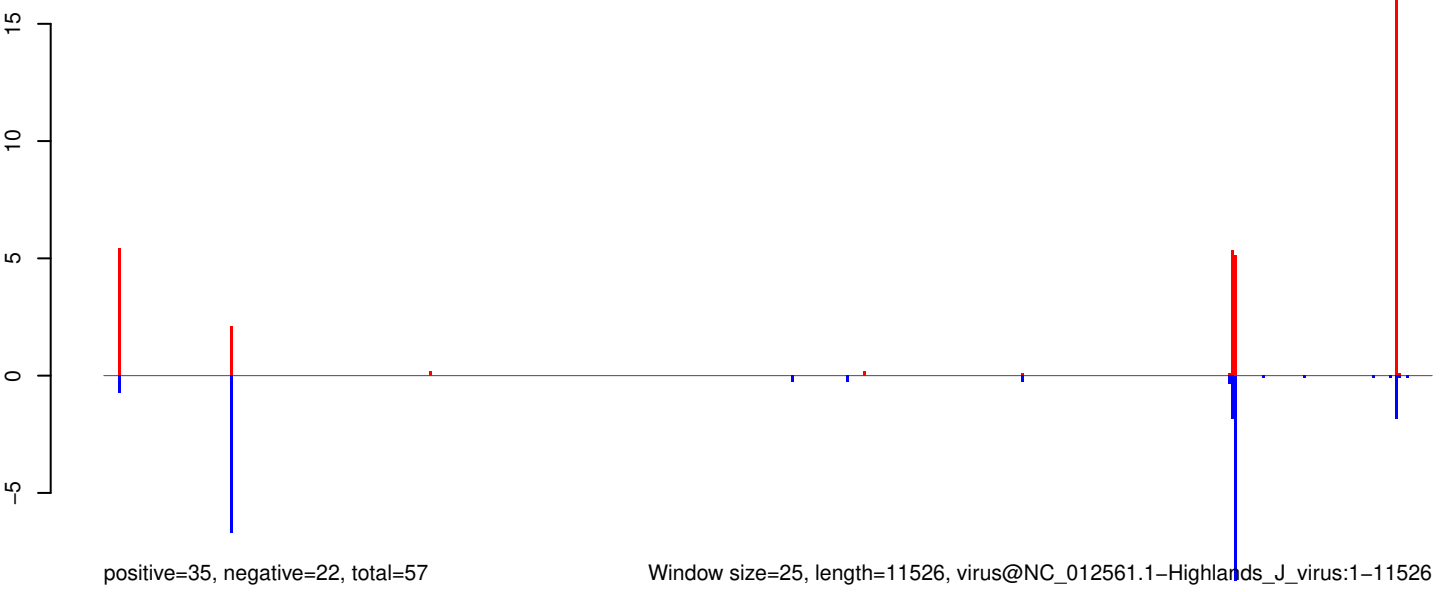
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



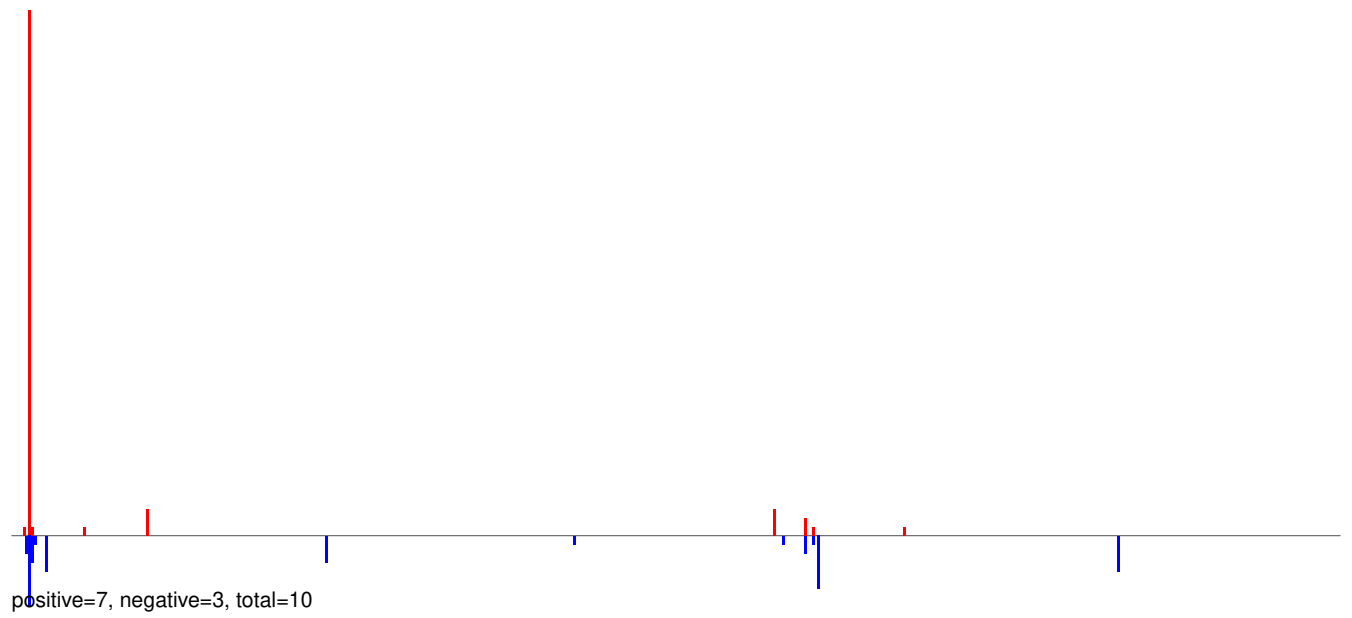
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



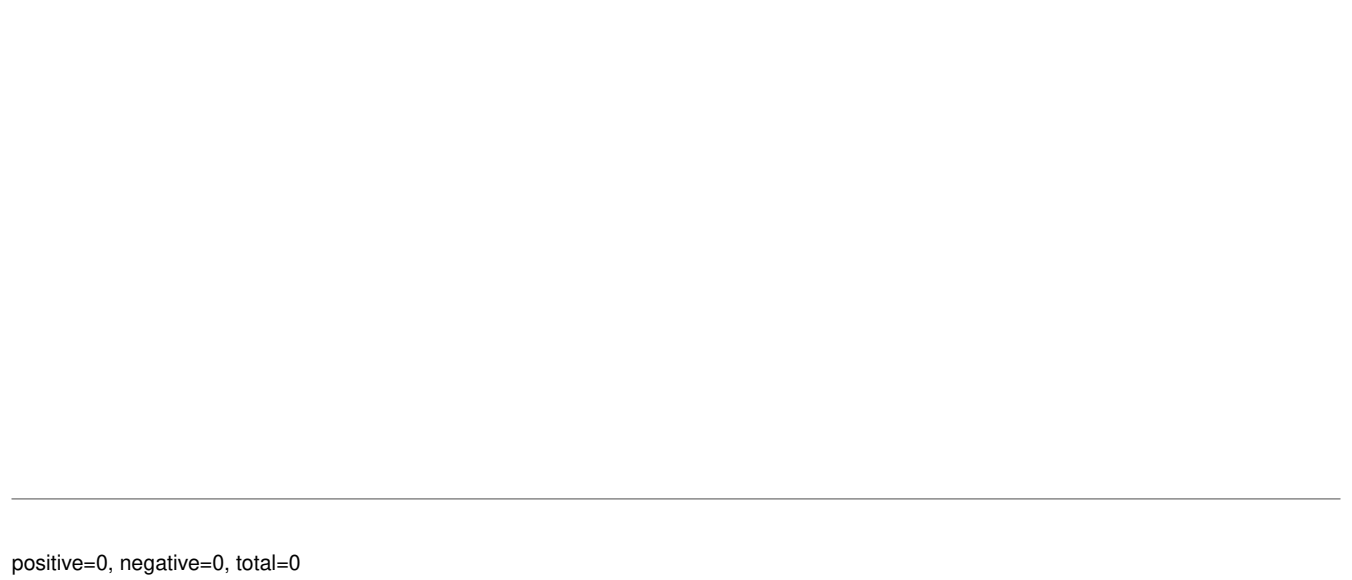
Window size=25, length=11526, virus@NC\_012561.1-Highlands\_J\_virus:1-11526



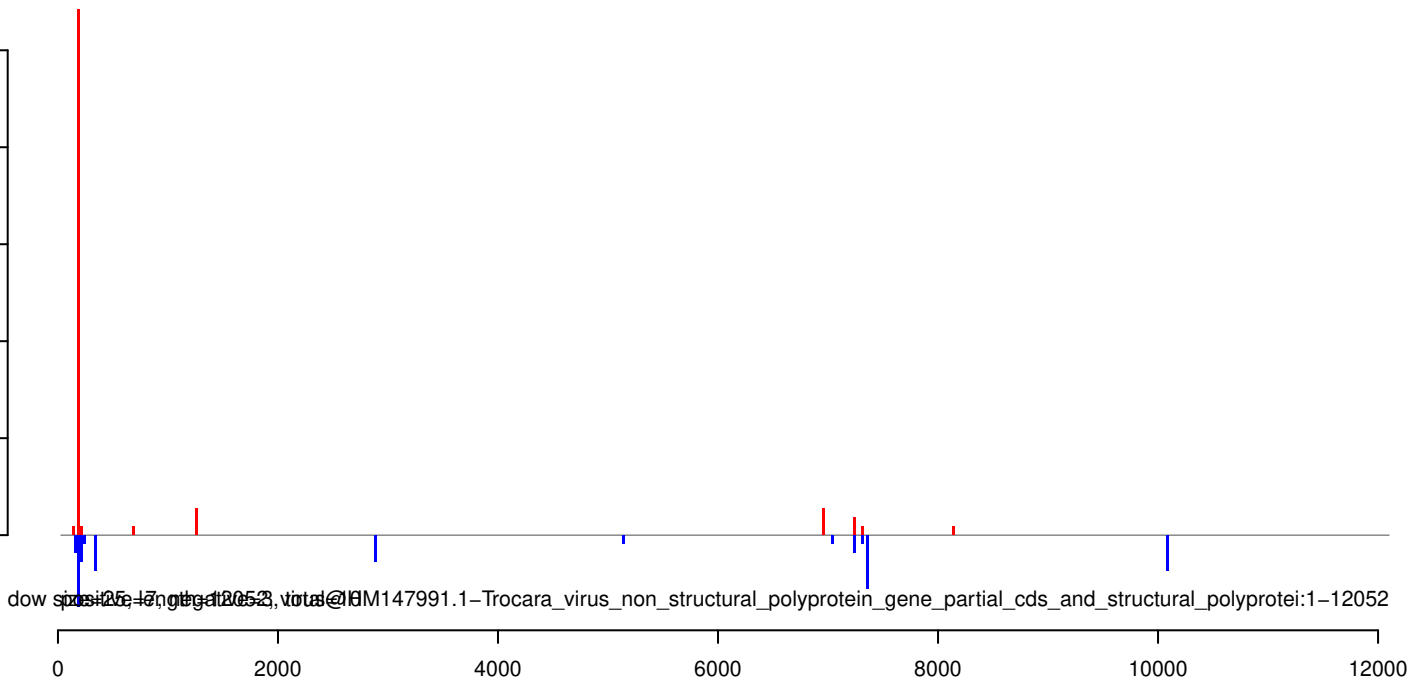
### AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep



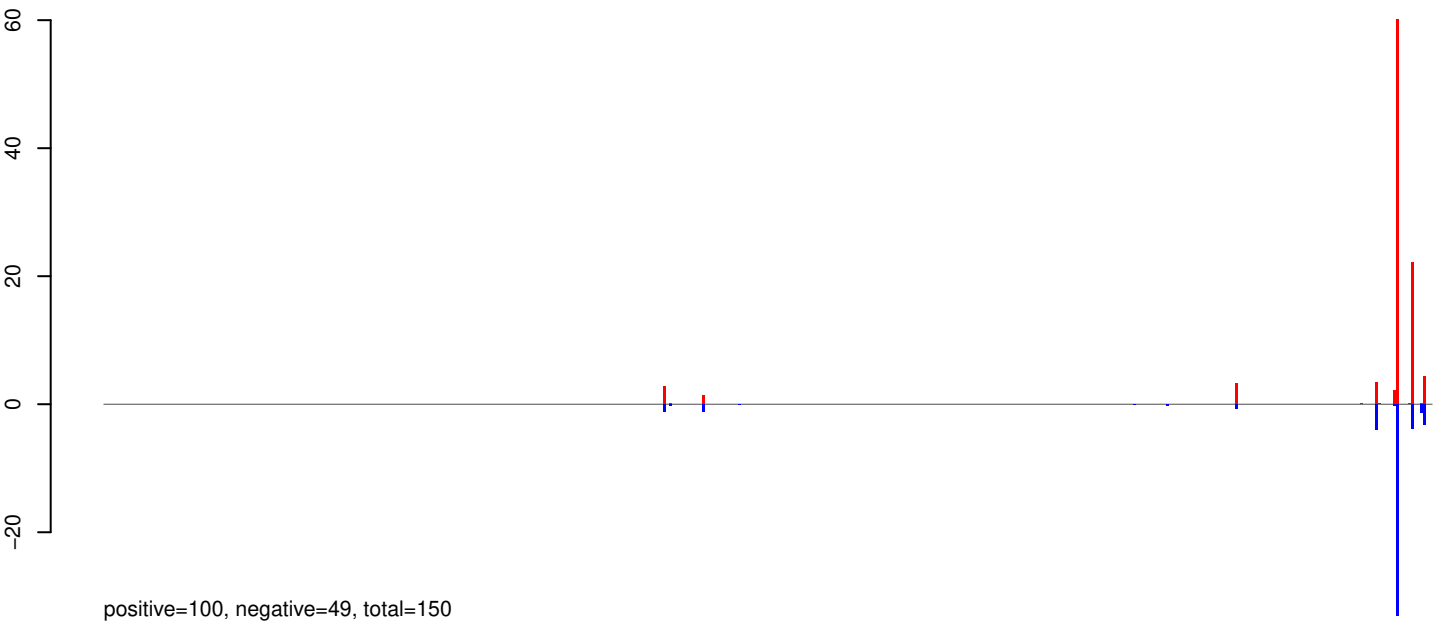
### AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep



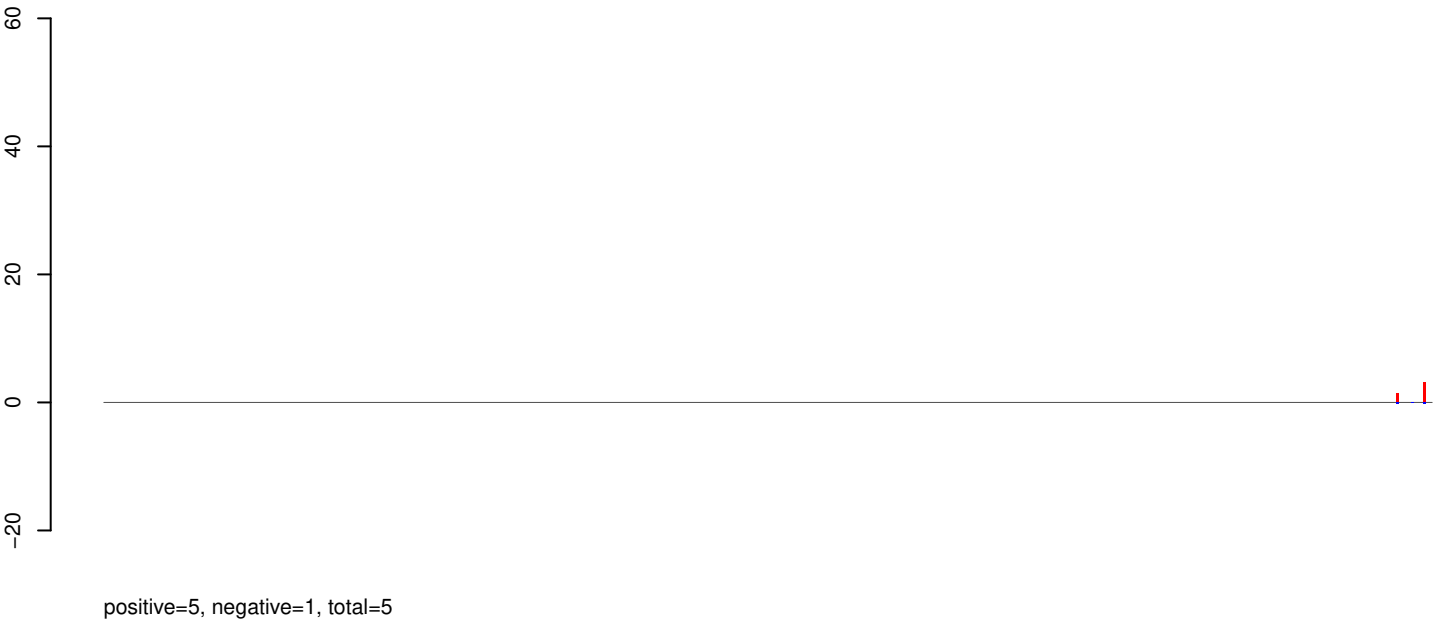
### AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep



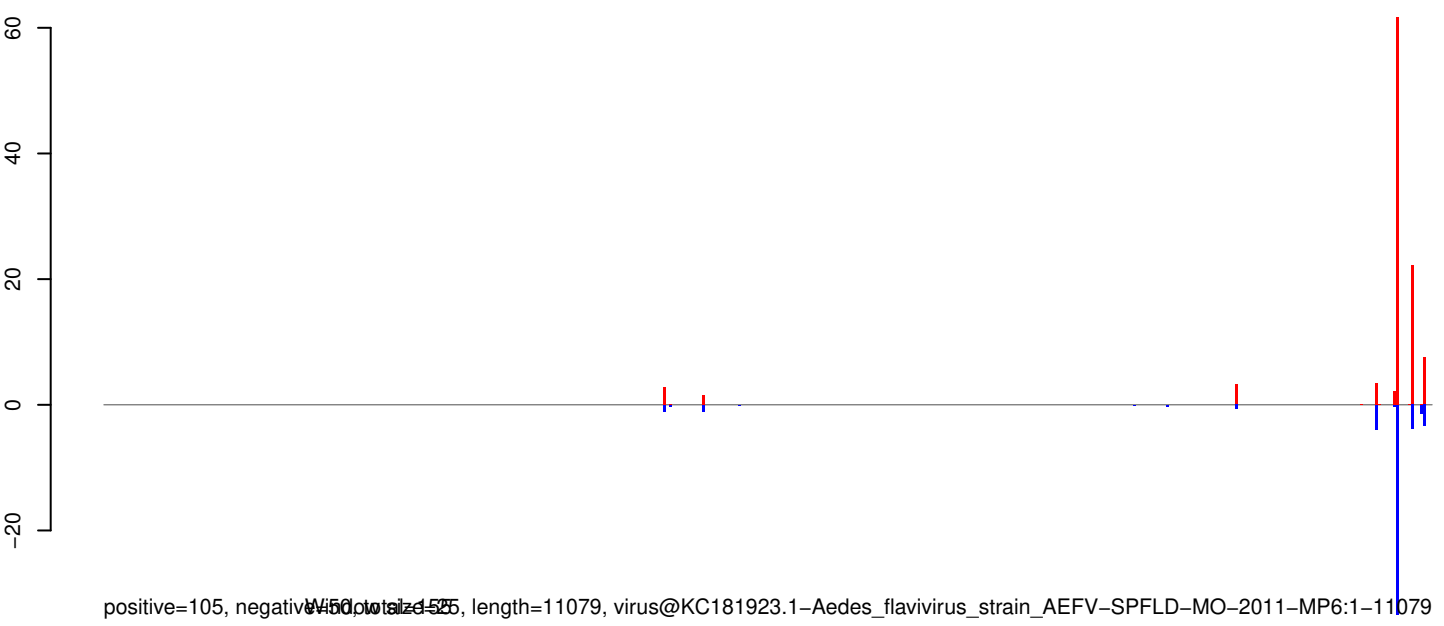
### AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep



### AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep



### AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep



### AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep

60  
40  
20  
0  
-20

positive=102, negative=51, total=153

### AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep

60  
40  
20  
0  
-20

positive=8, negative=1, total=9

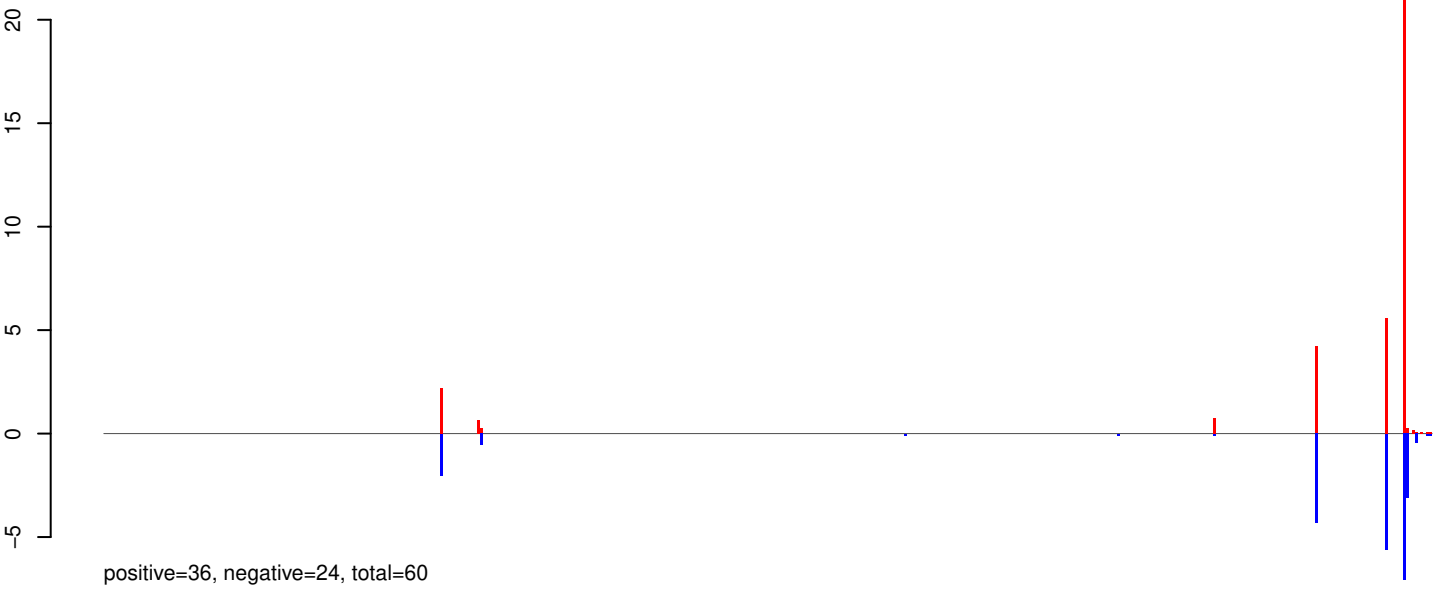
### AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep

60  
40  
20  
0  
-20

positive=110, negative=52, total=162, window=25, length=11064, virus@NC\_012932.1-Aedes\_flavivirus\_genomic\_RNA\_strain\_Narita-21:1-11064

0 2000 4000 6000 8000 10000

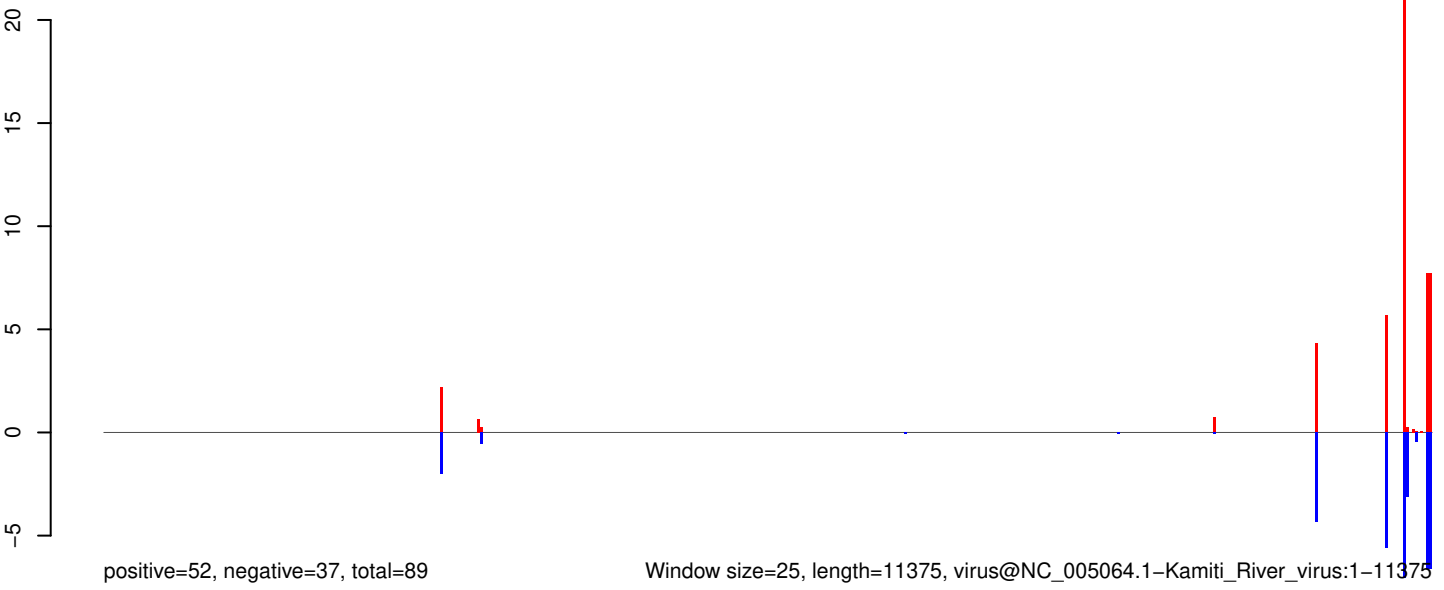
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

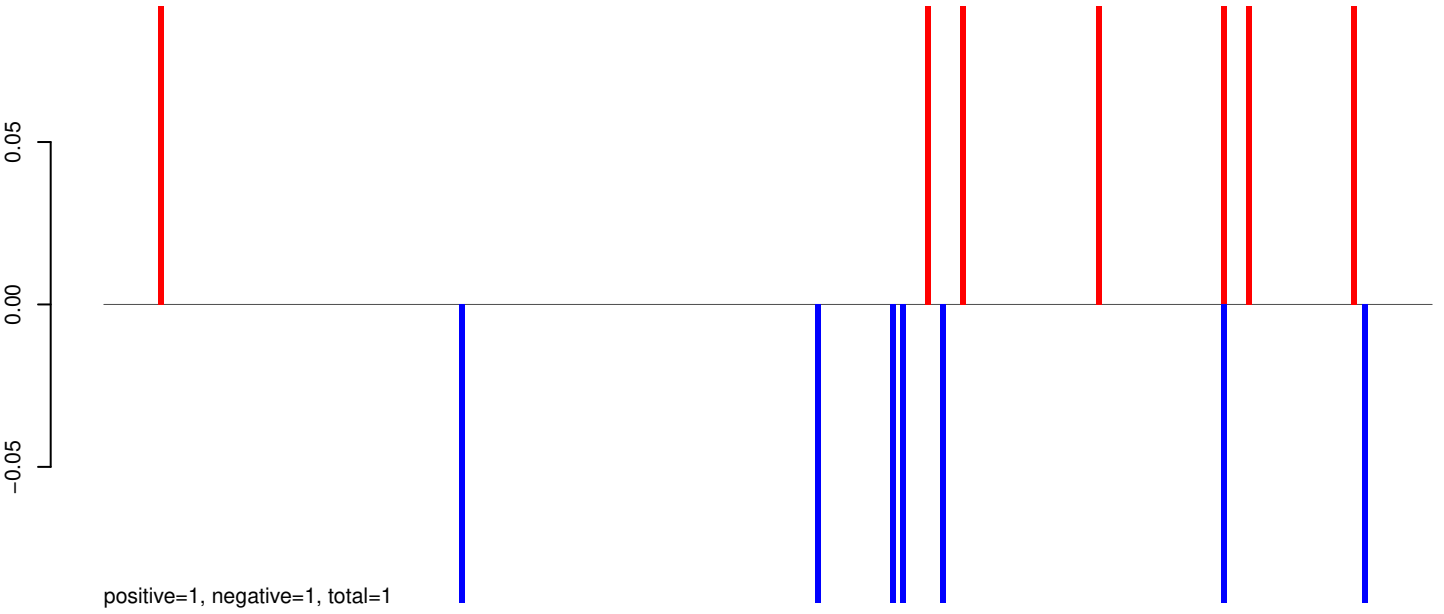


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

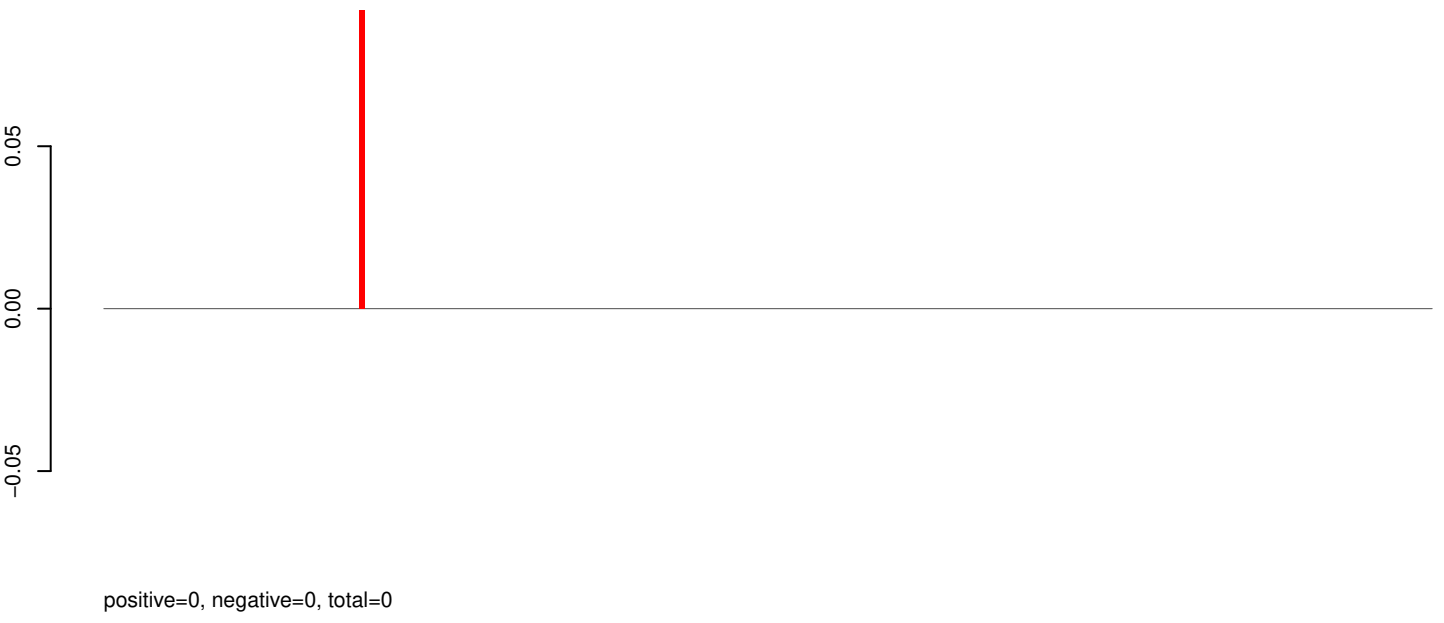


0 2000 4000 6000 8000 10000

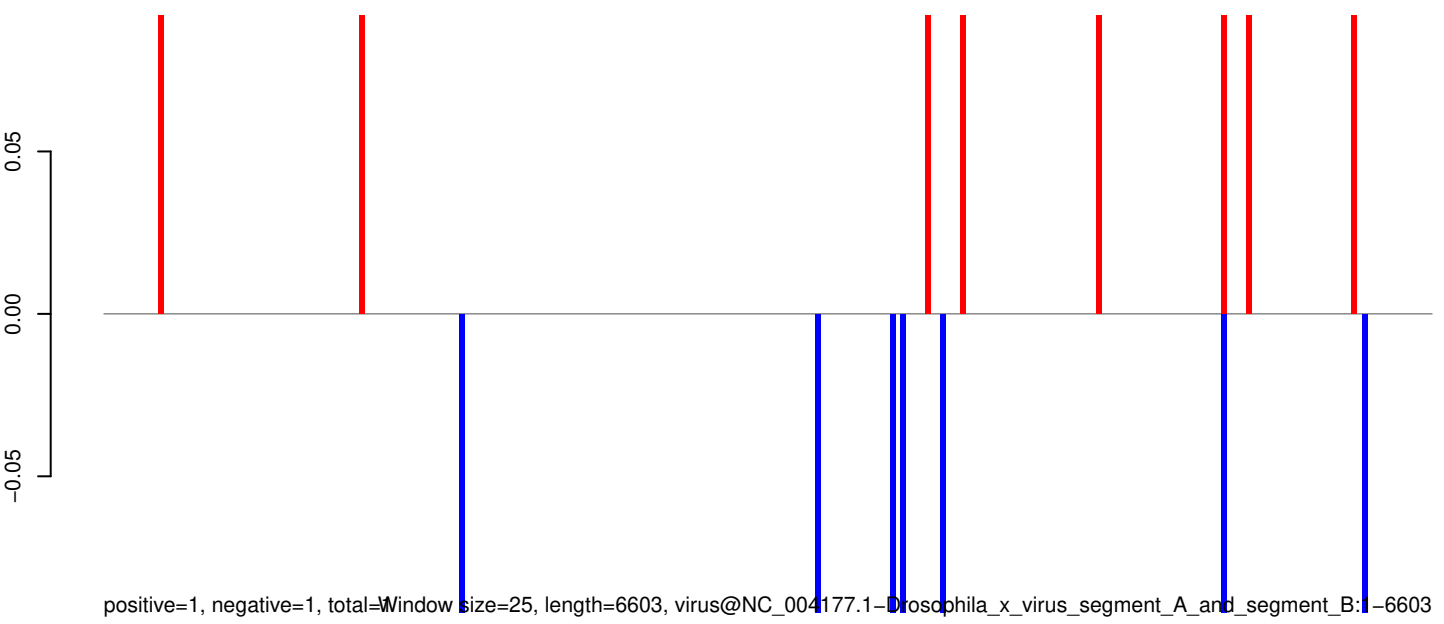
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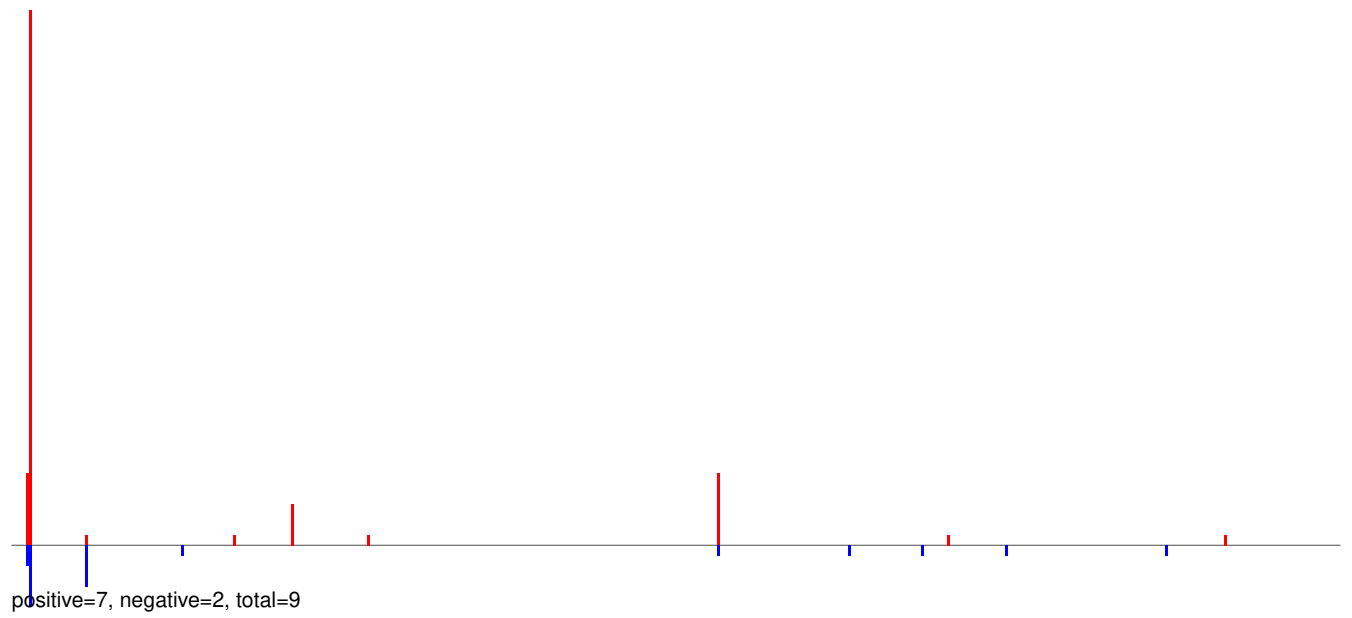
AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep



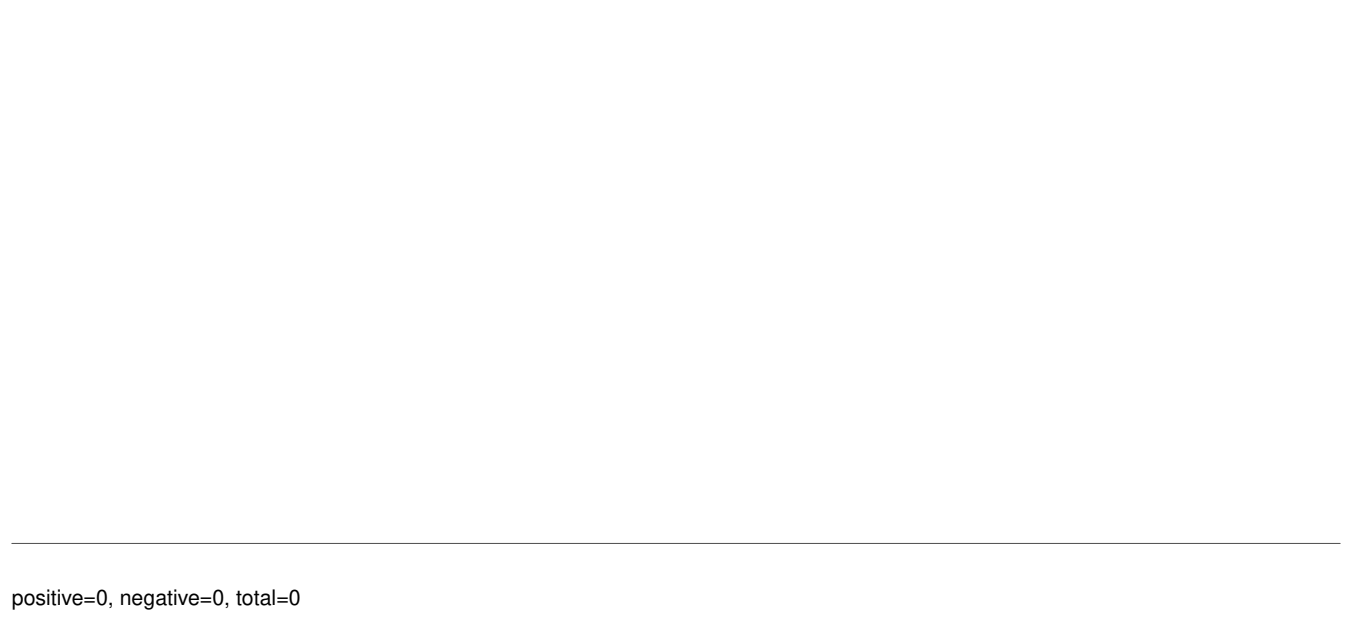
AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep



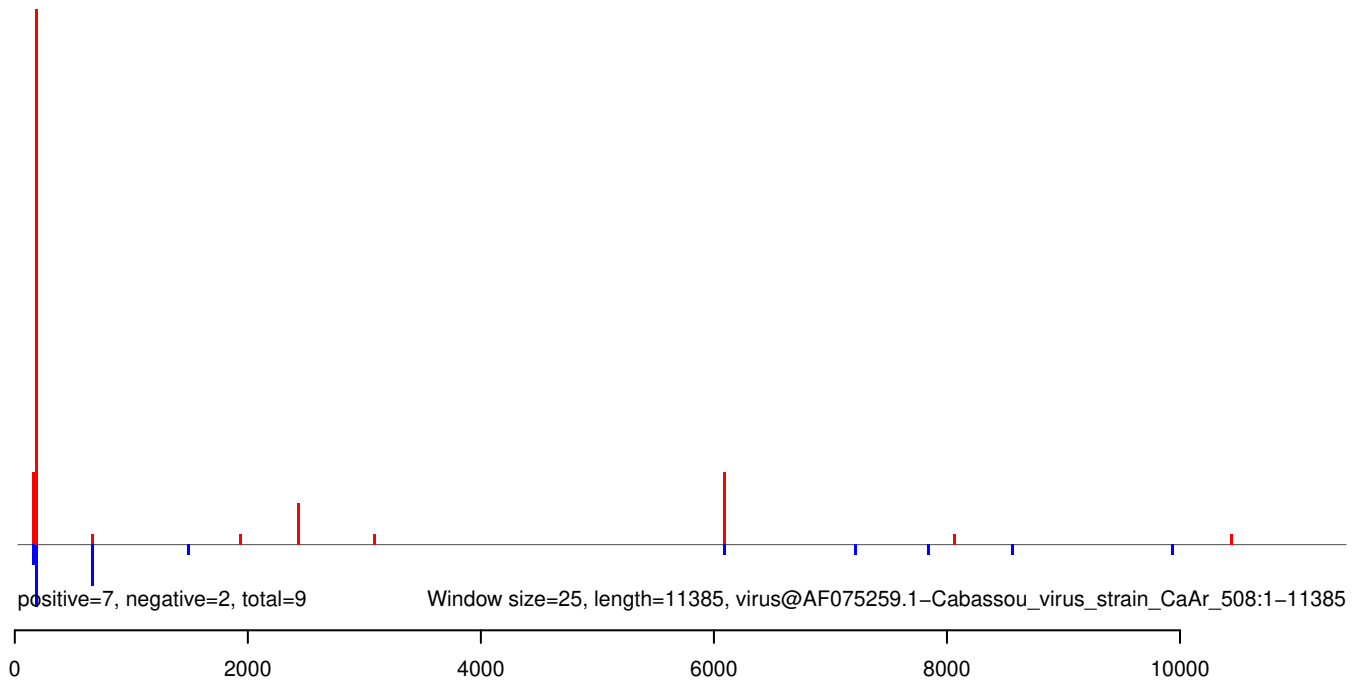
AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep



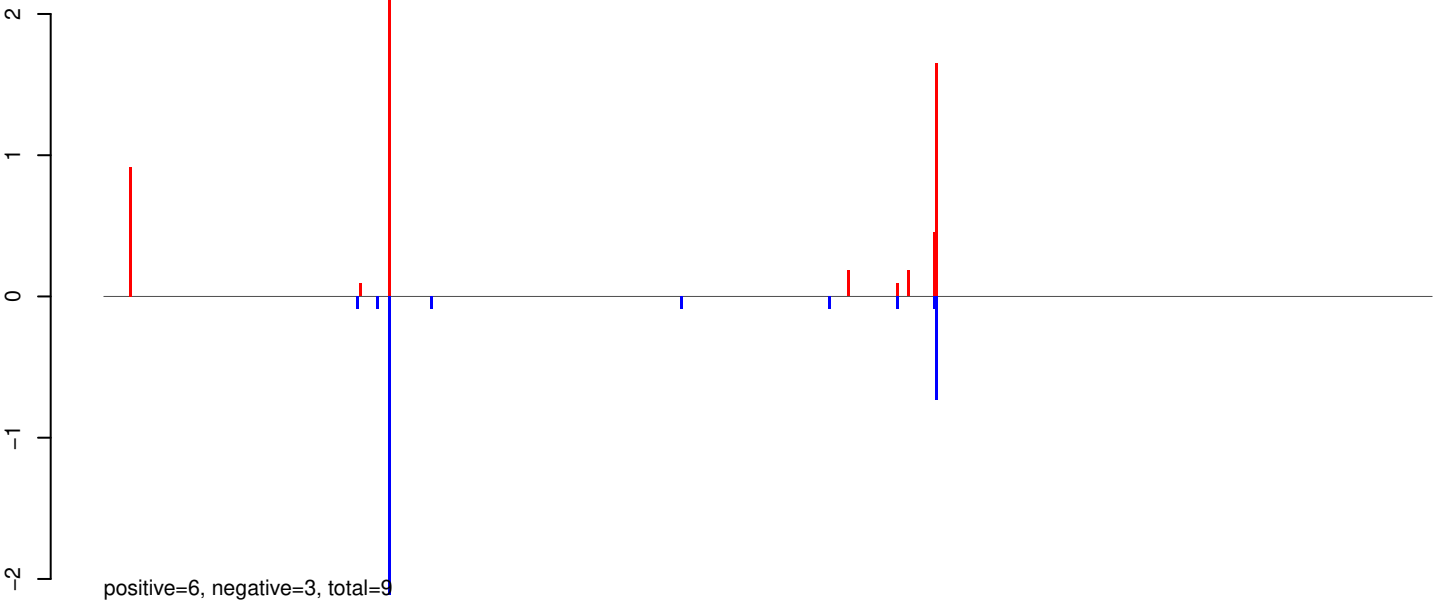
AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep



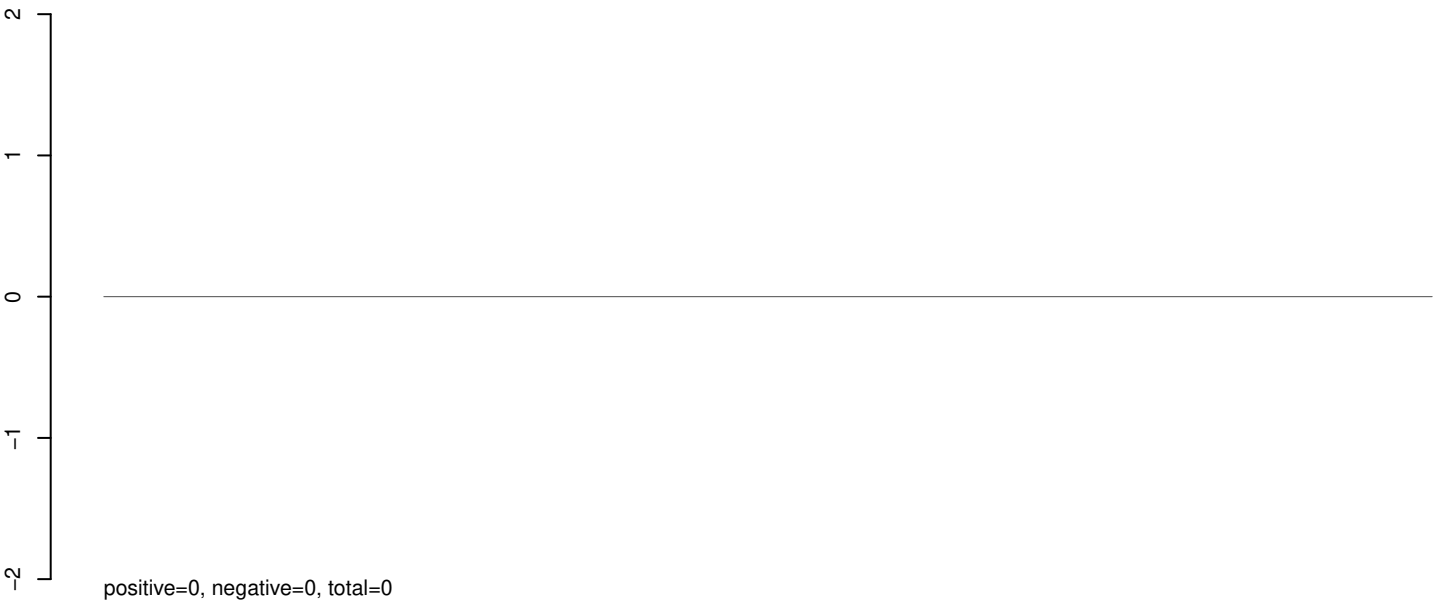
AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep



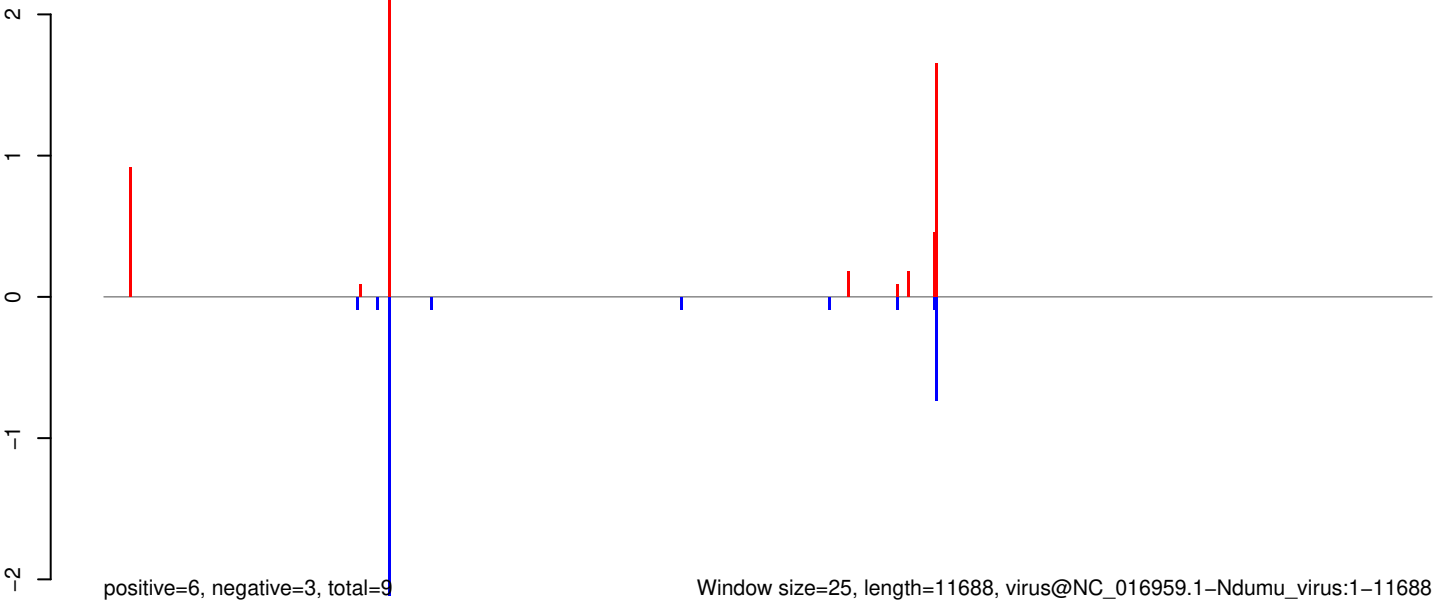
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



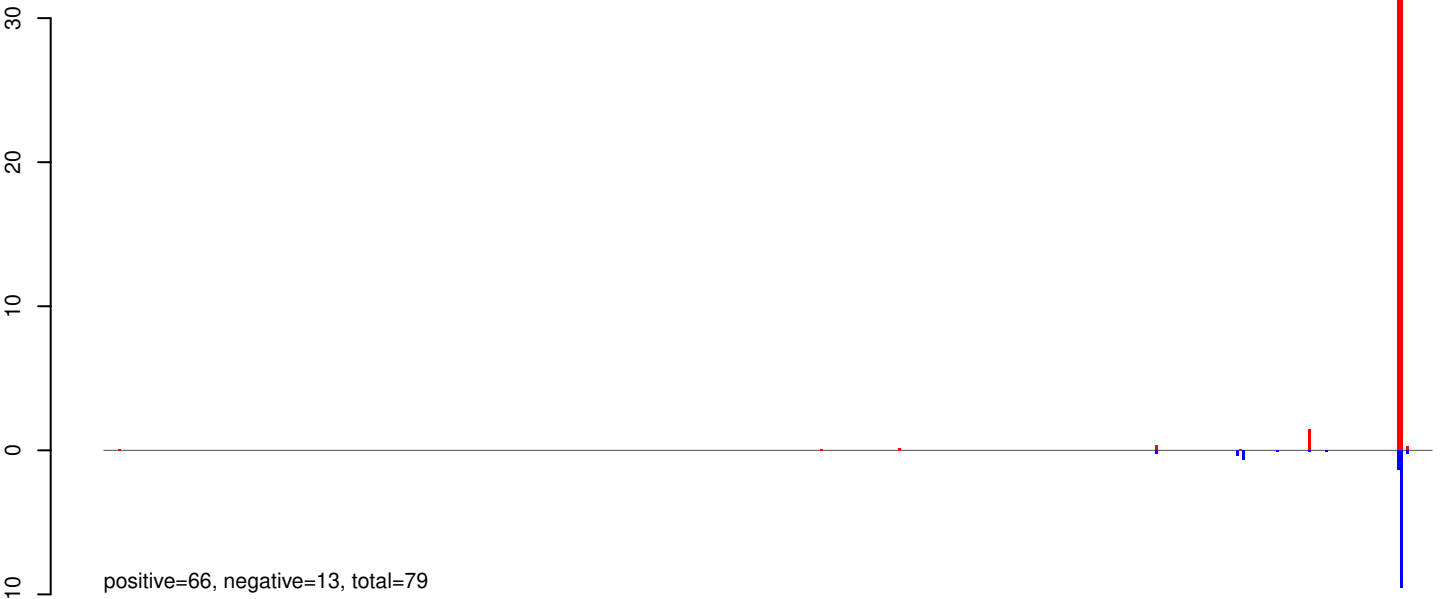
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



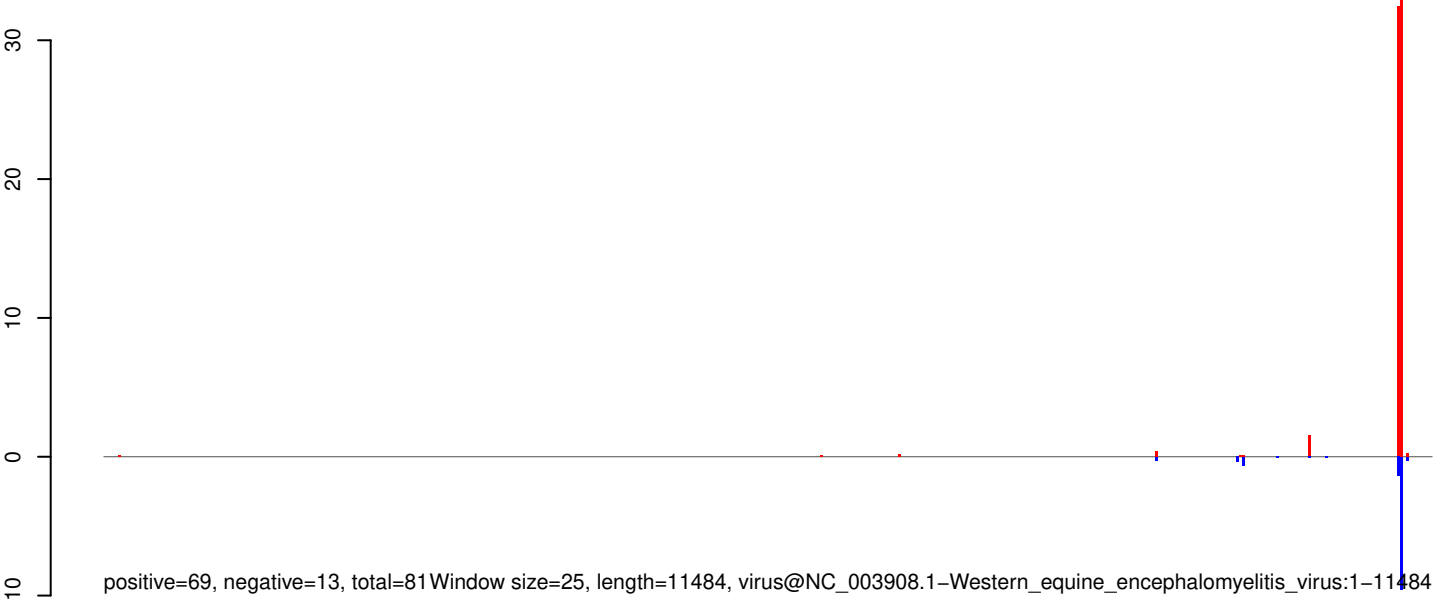
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



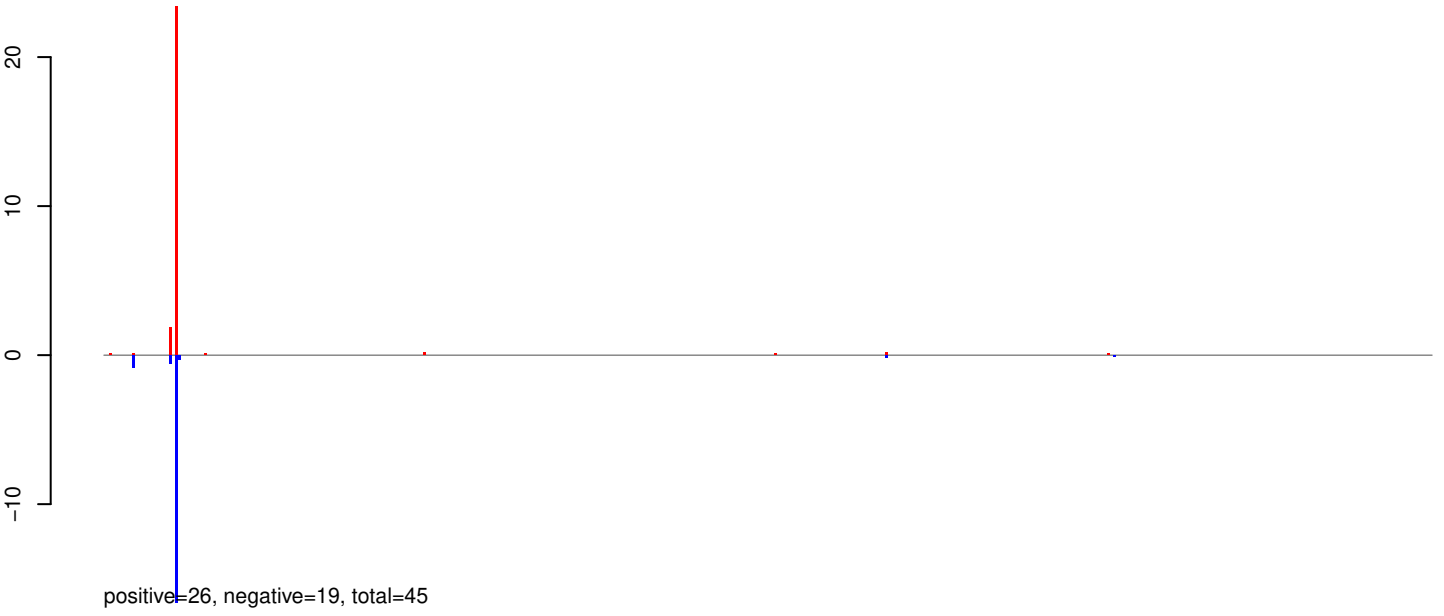
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



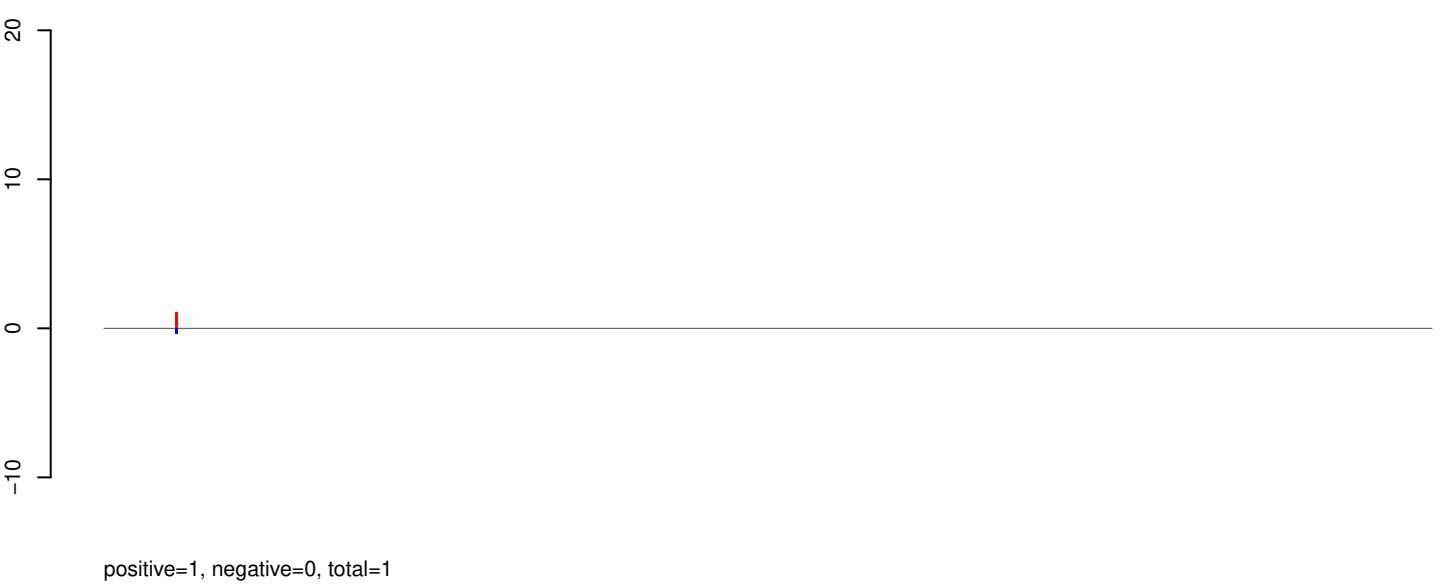
0 2000 4000 6000 8000 10000



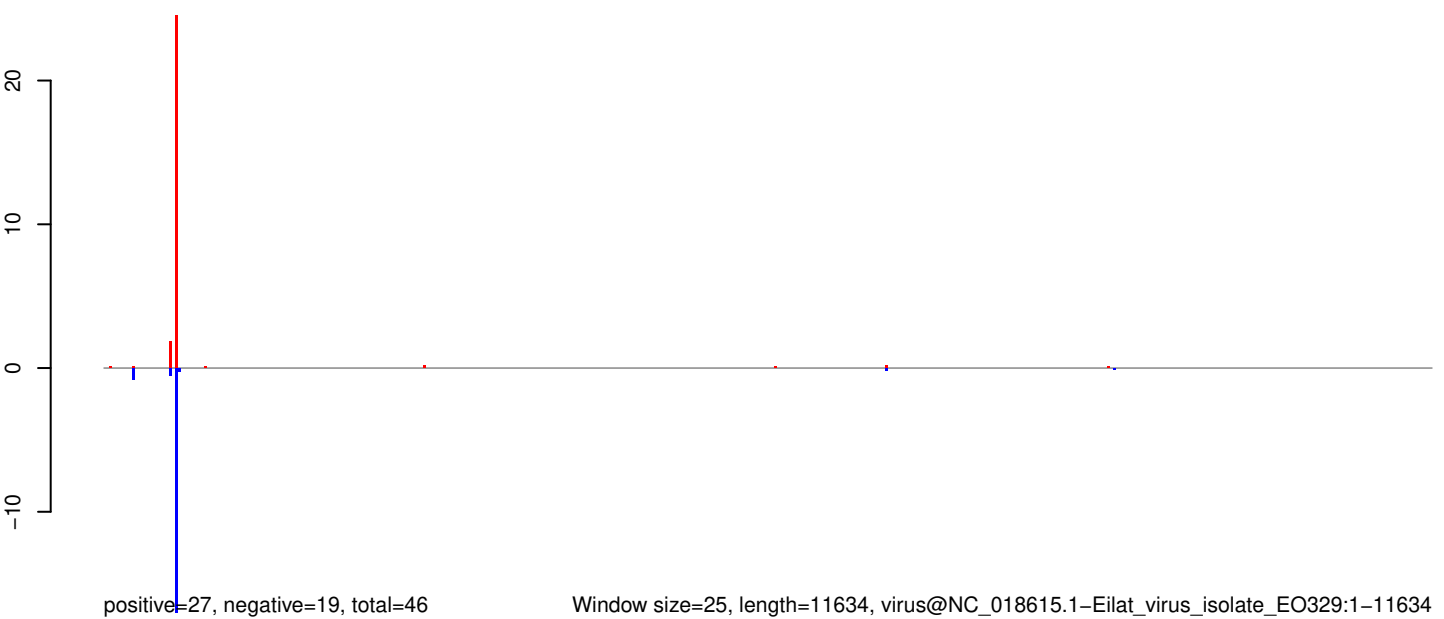
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



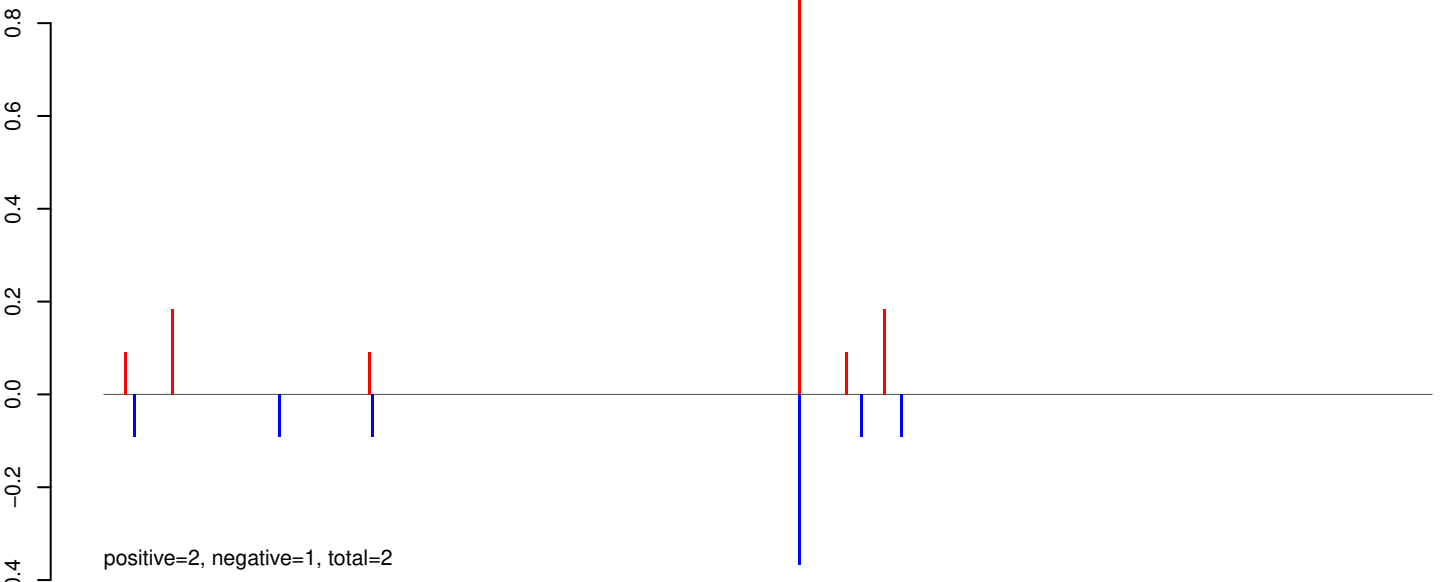
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



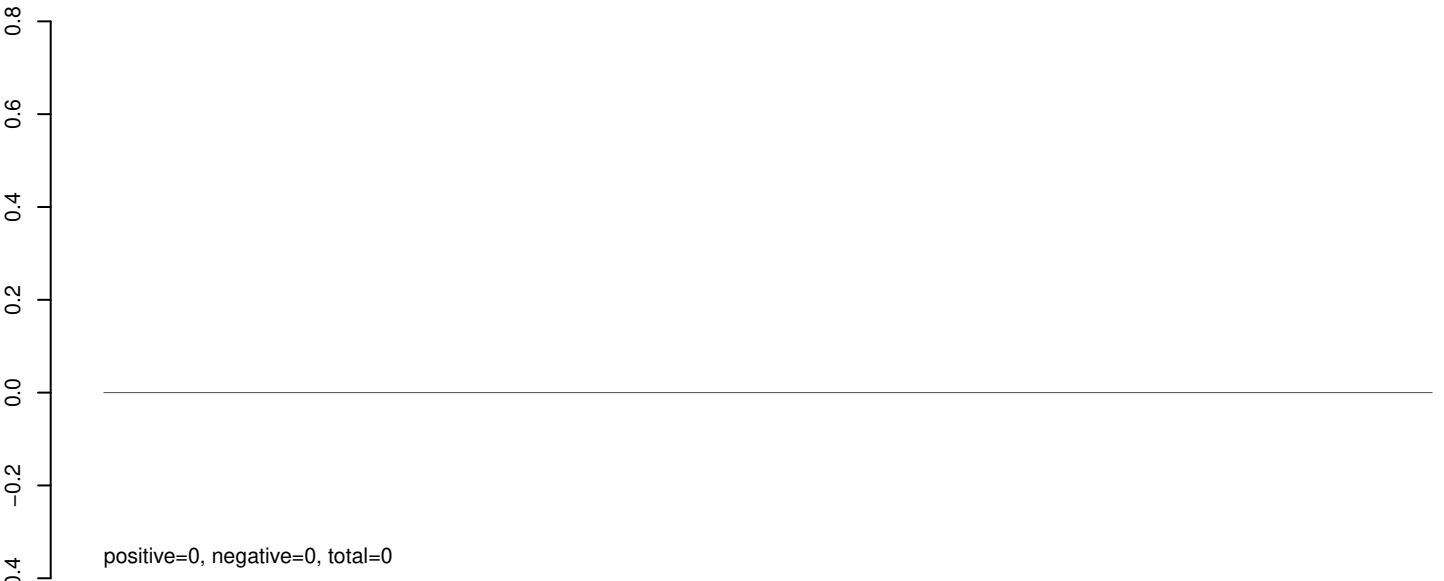
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



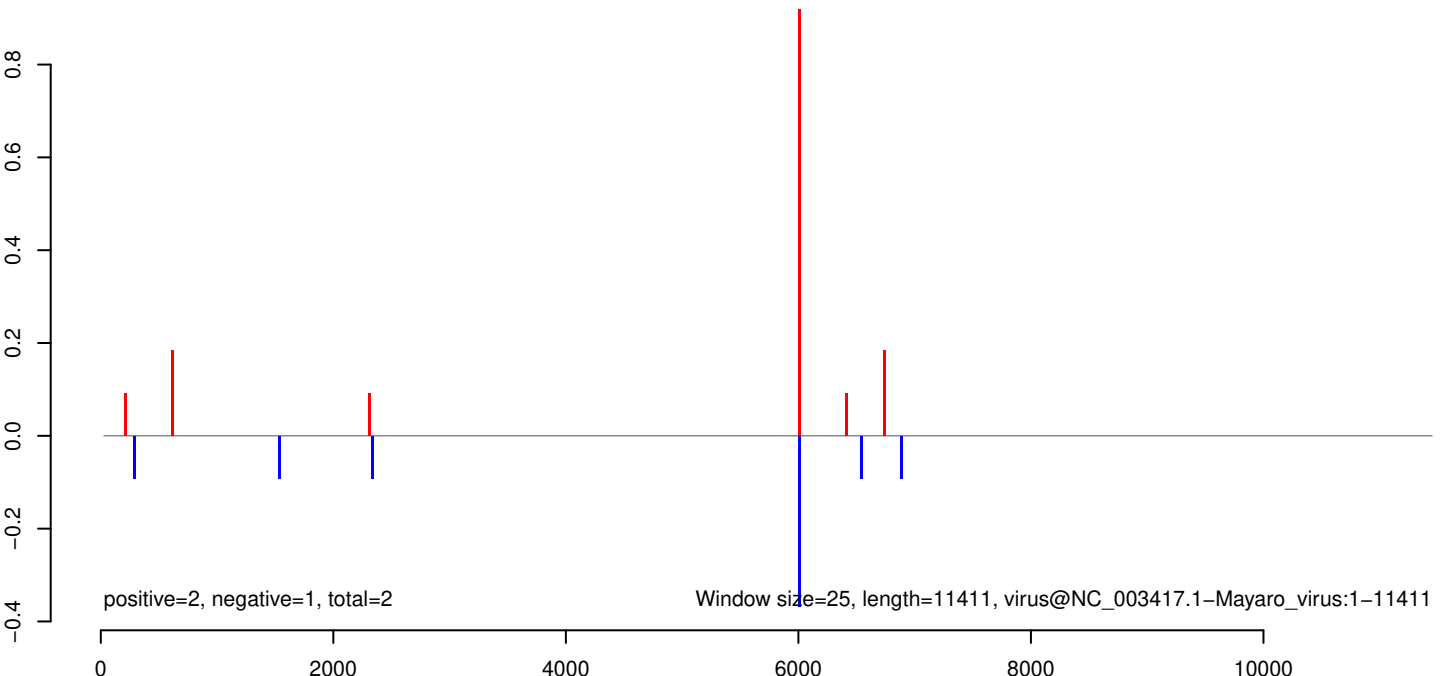
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



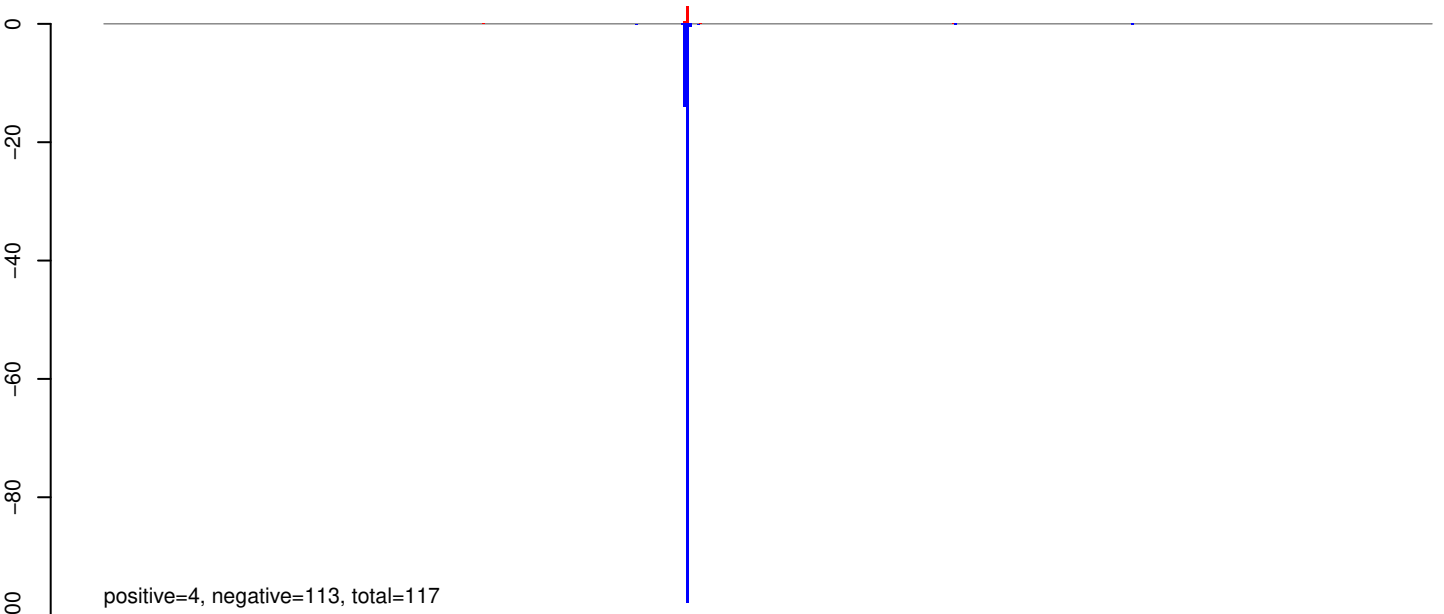
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



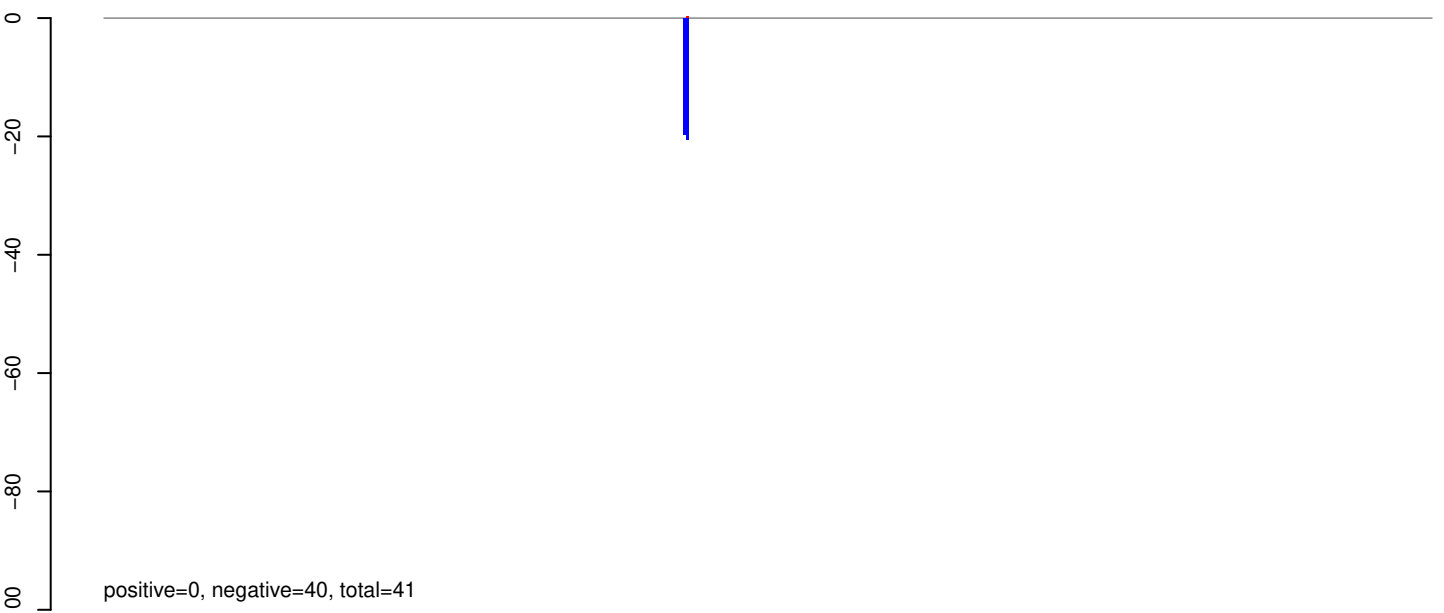
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



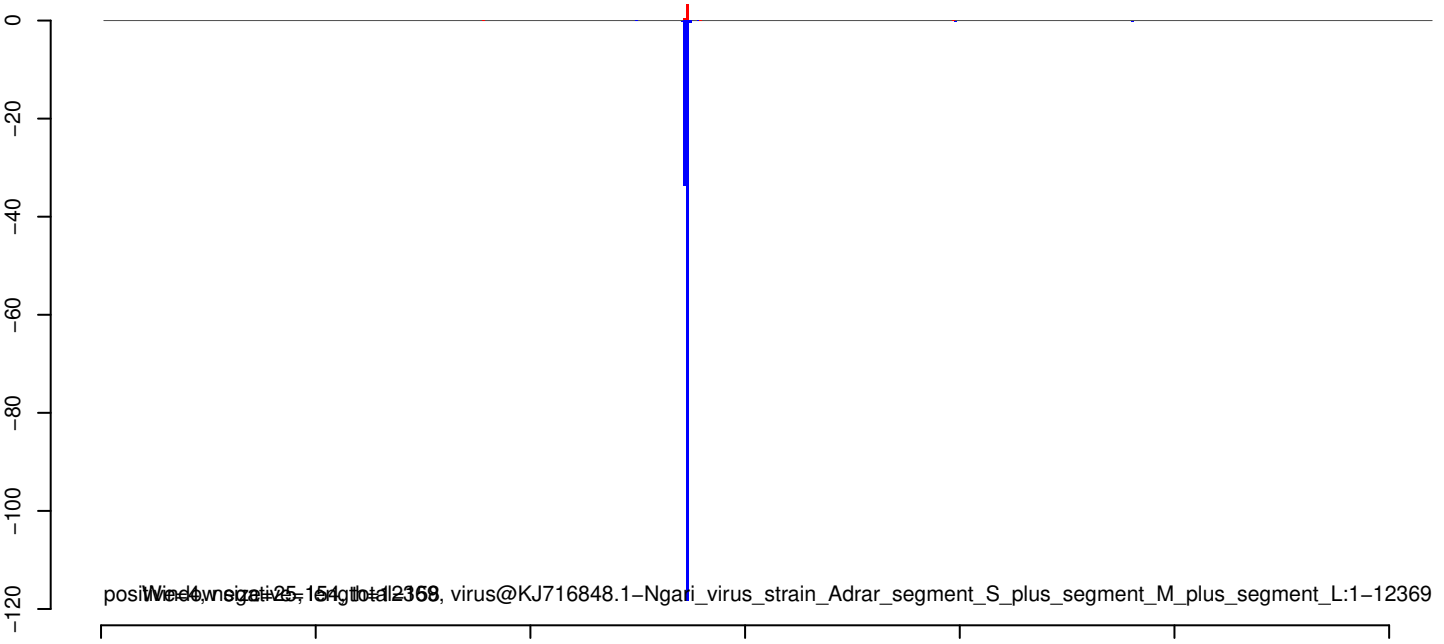
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



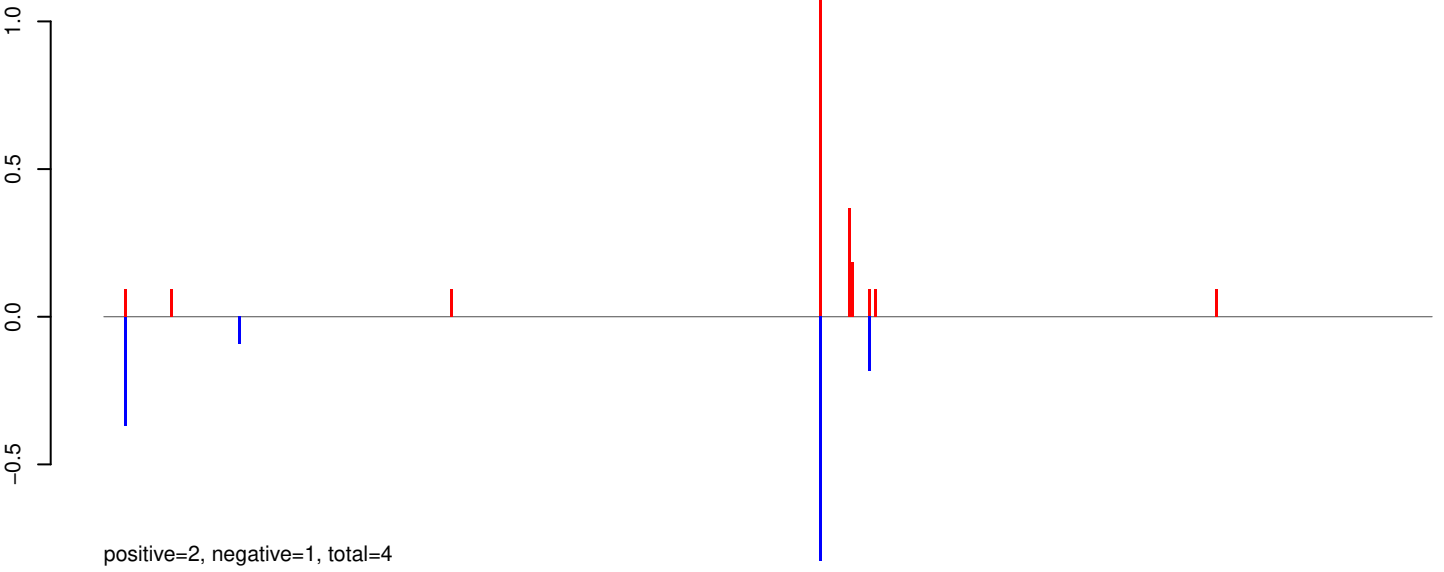
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



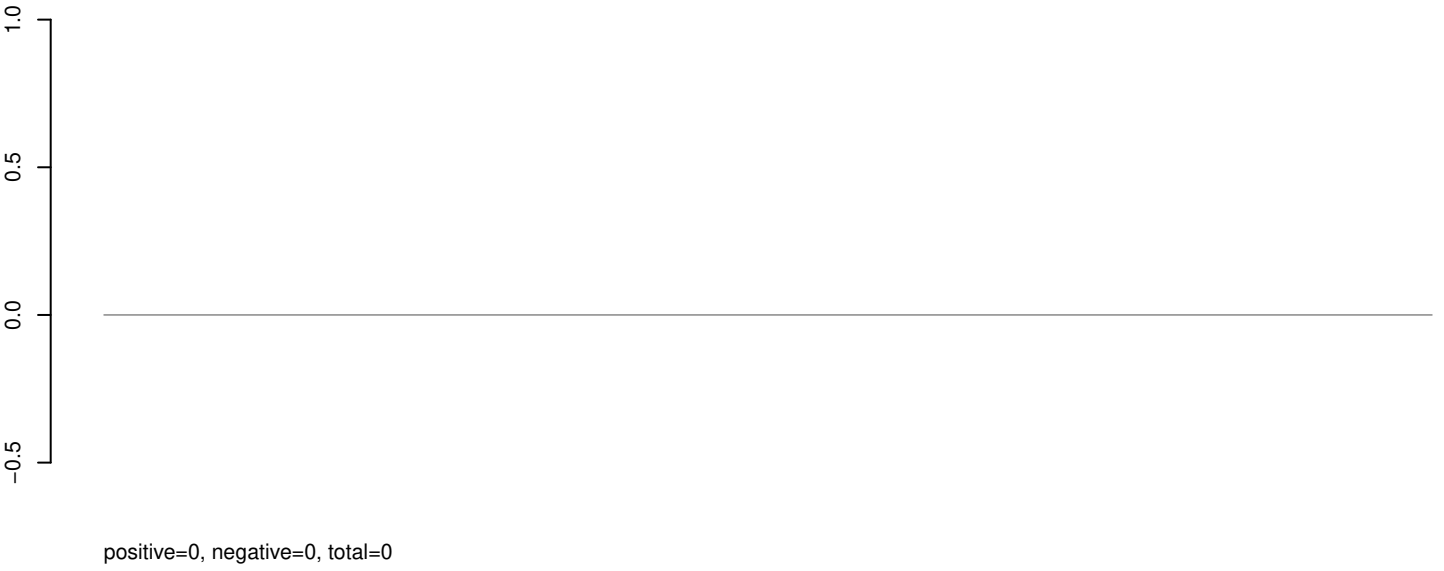
Wade, Nigam, 2015, Virus@KJ716848.1-Ngari\_virus\_strain\_Adrar\_segment\_S\_plus\_segment\_M\_plus\_segment\_L:1-12369

0 2000 4000 6000 8000 10000 12000

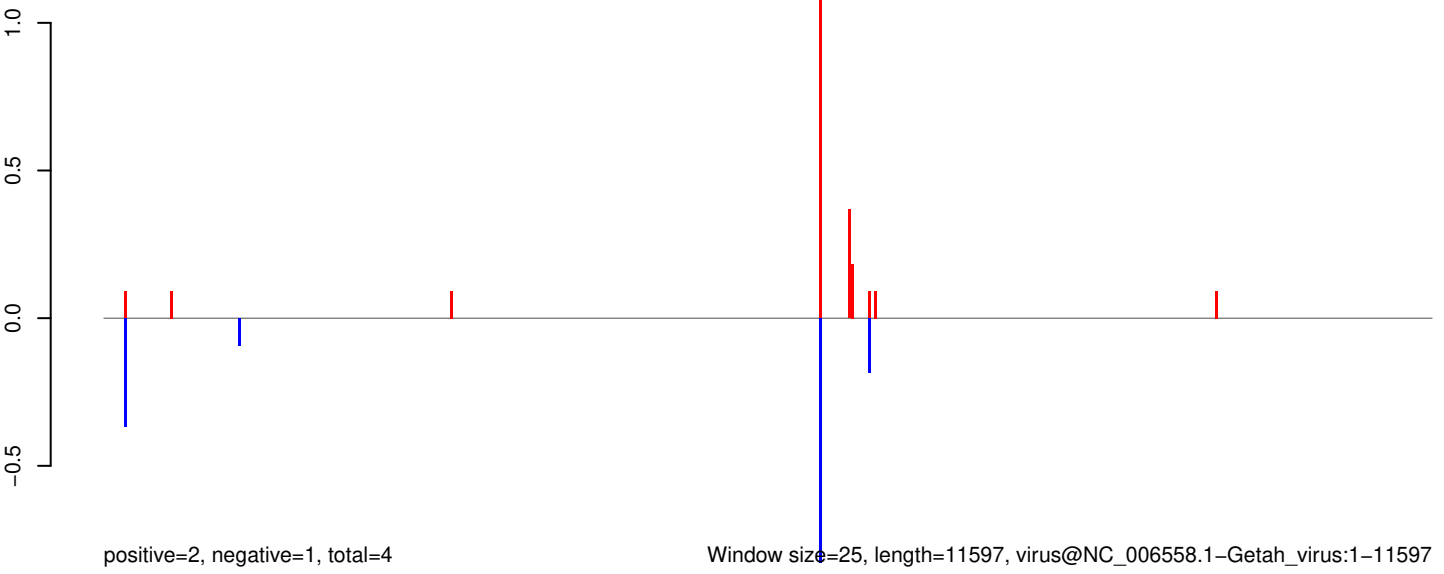
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

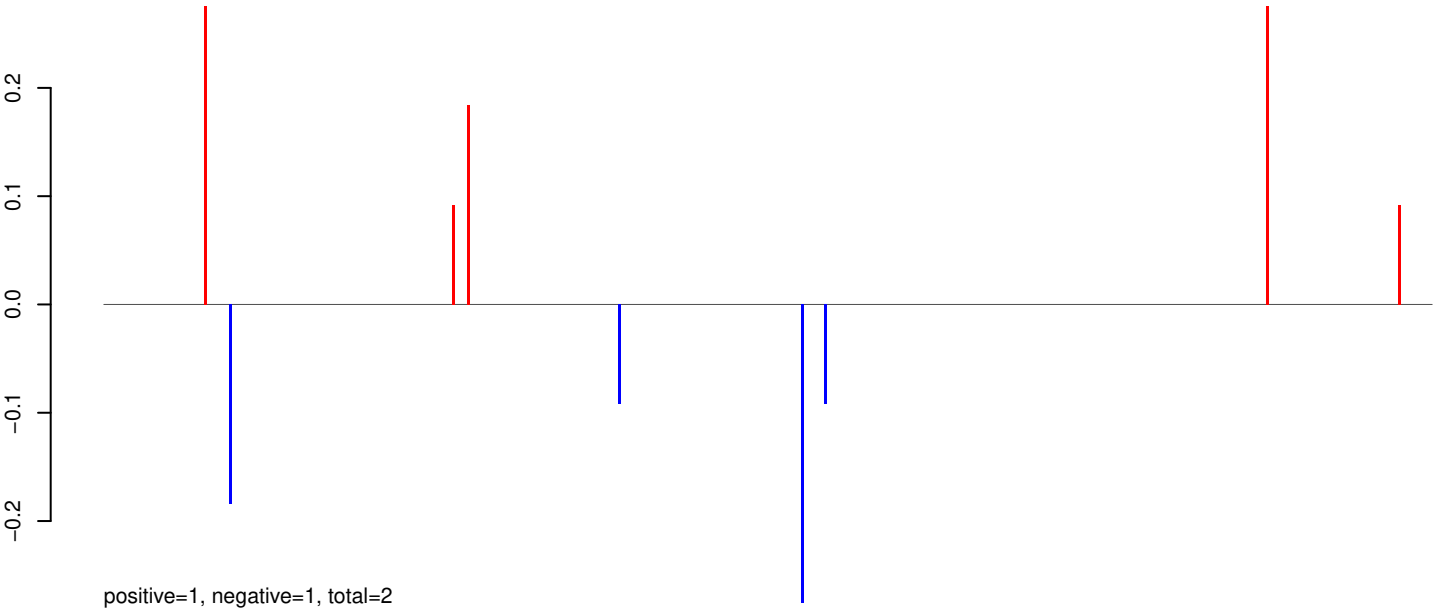


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

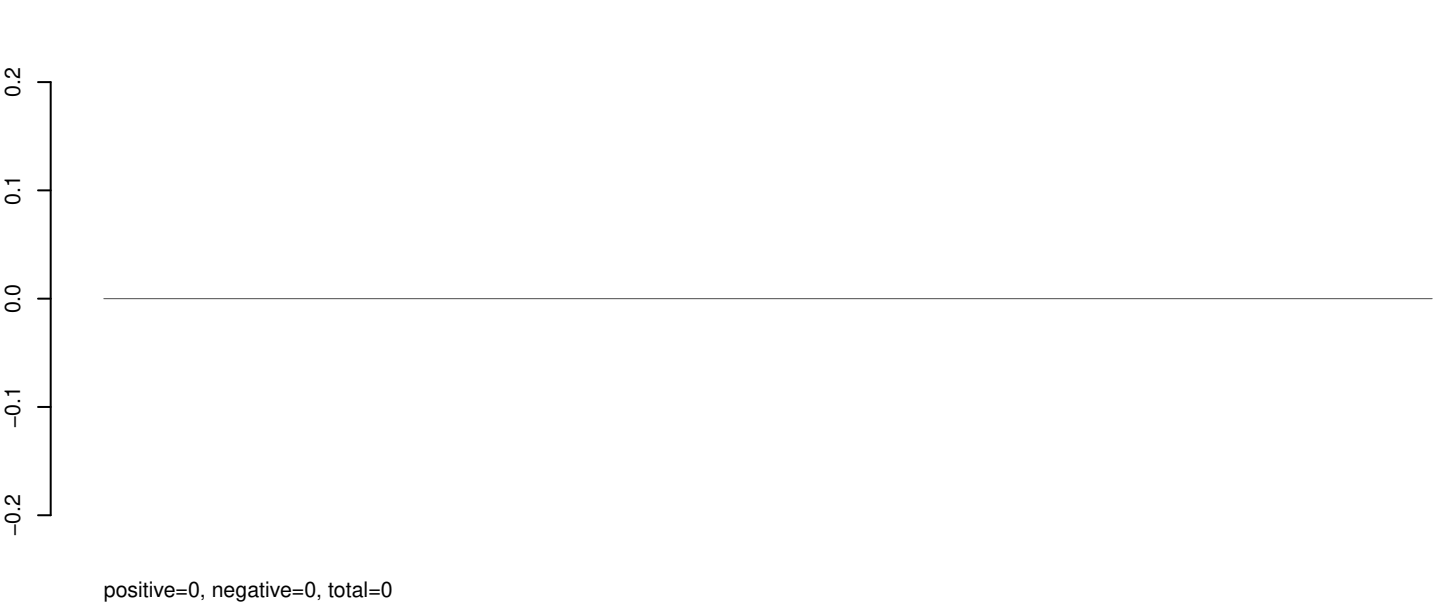


Window size=25, length=11597, virus@NC\_006558.1-Getah\_virus:1-11597

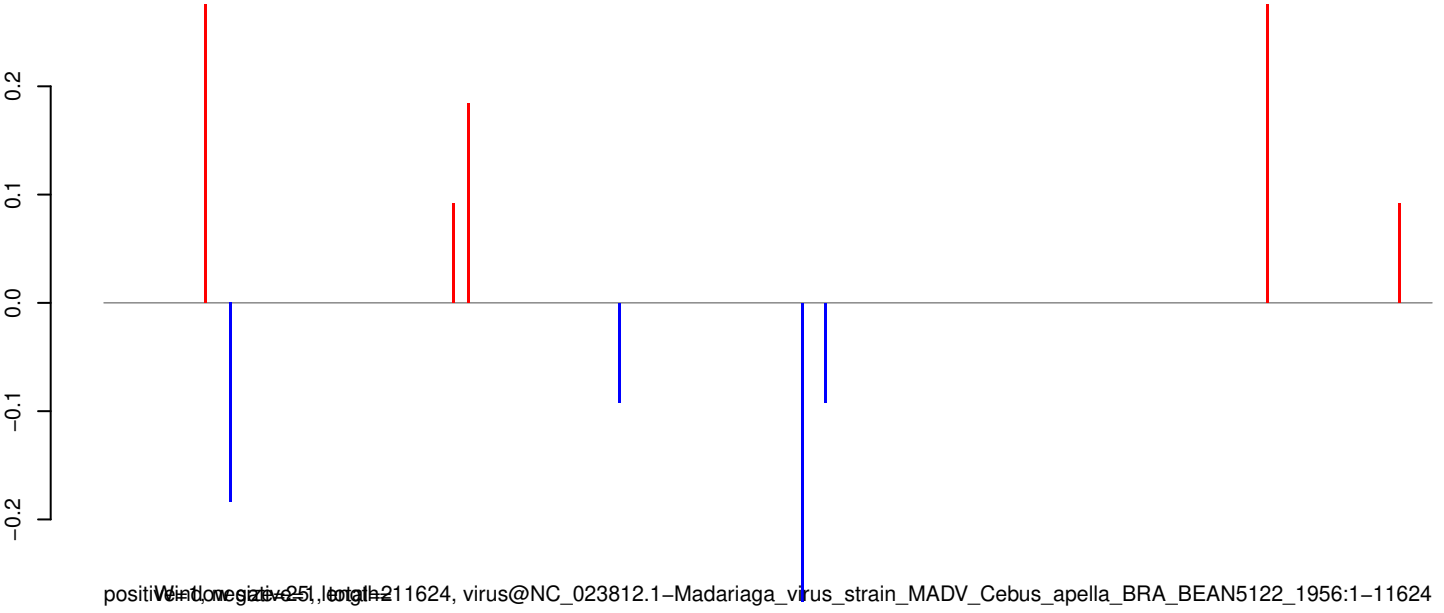
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

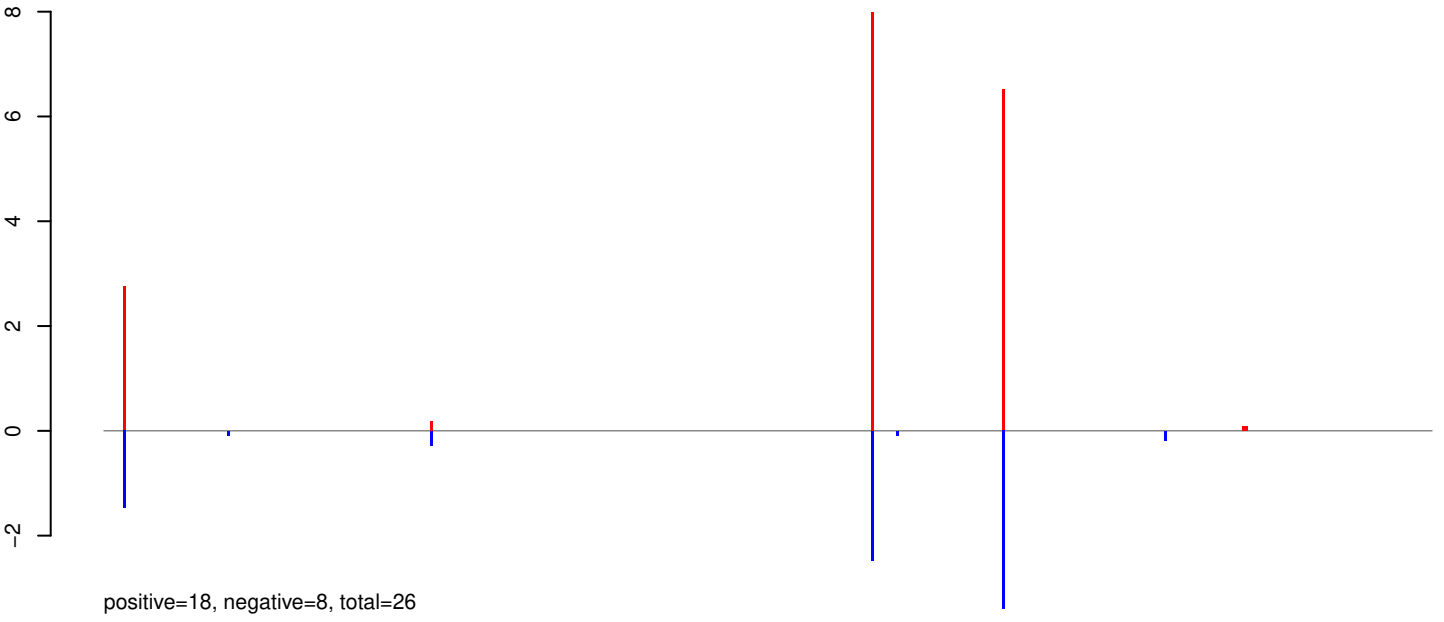


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

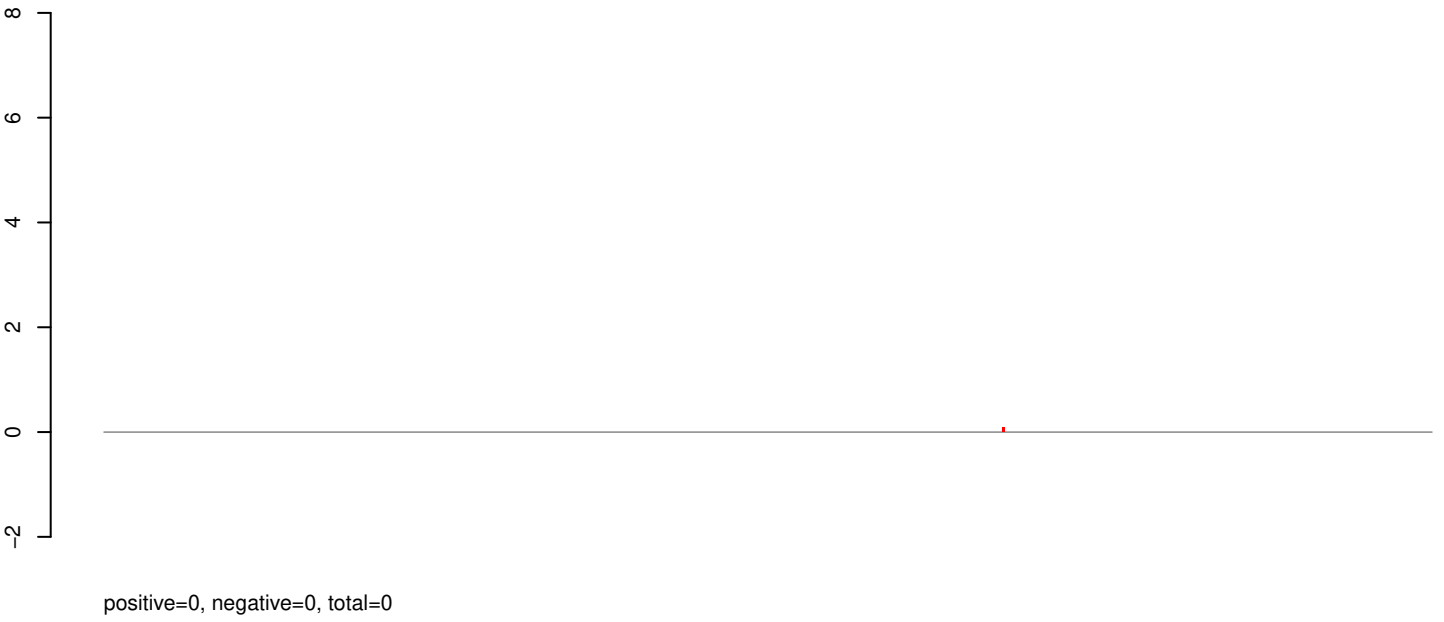


11624, virus@NC\_023812.1-Madariaga\_virus\_strain\_MADV\_Cebus\_apella\_BRA\_BEAN5122\_1956:1-11624

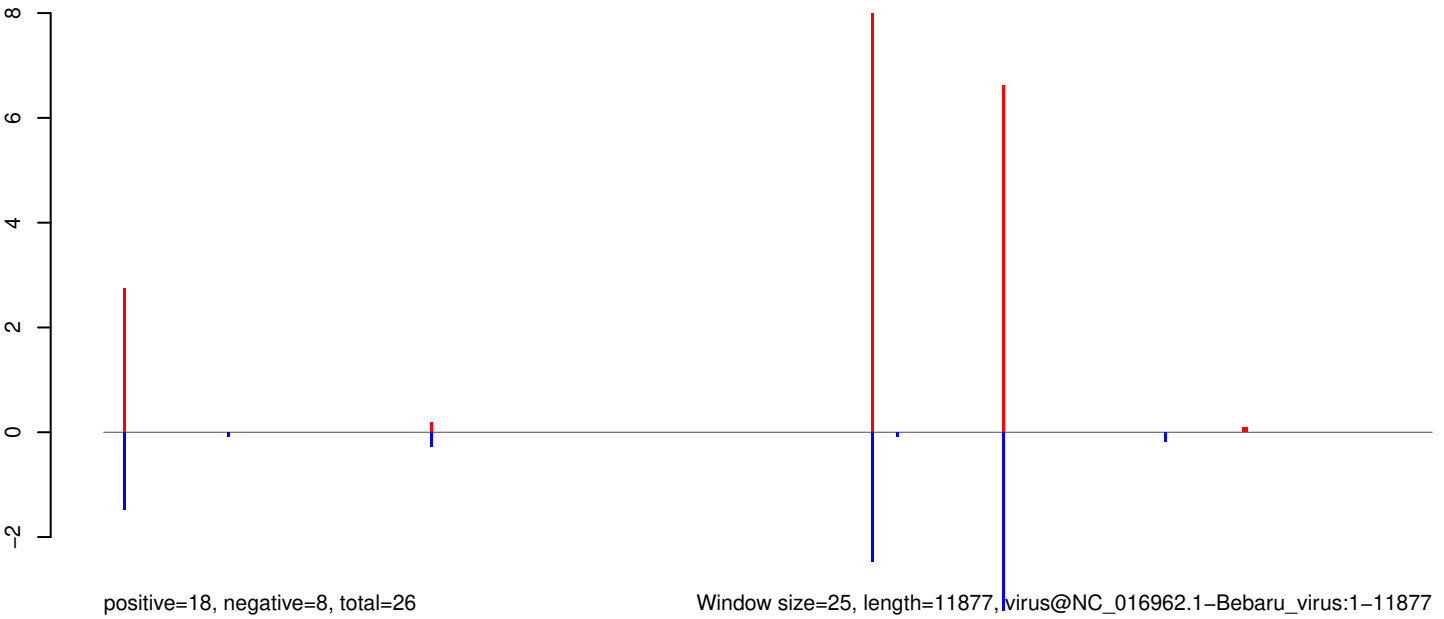
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

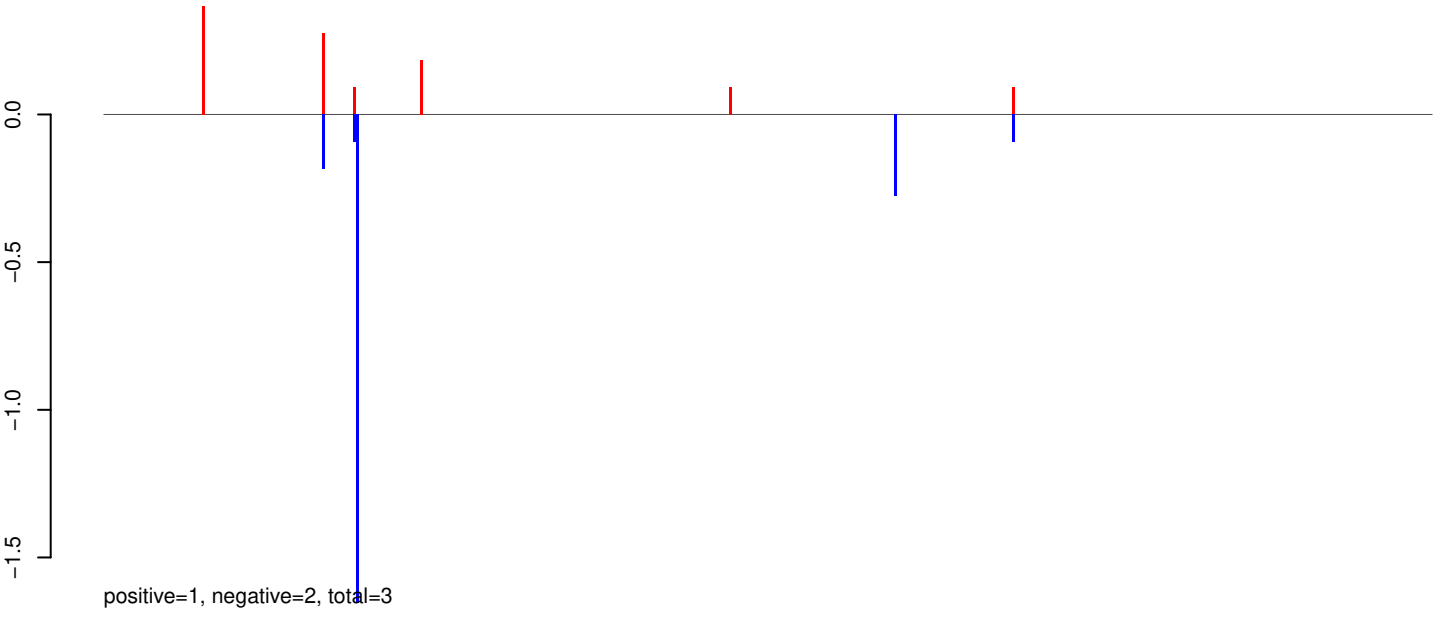


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

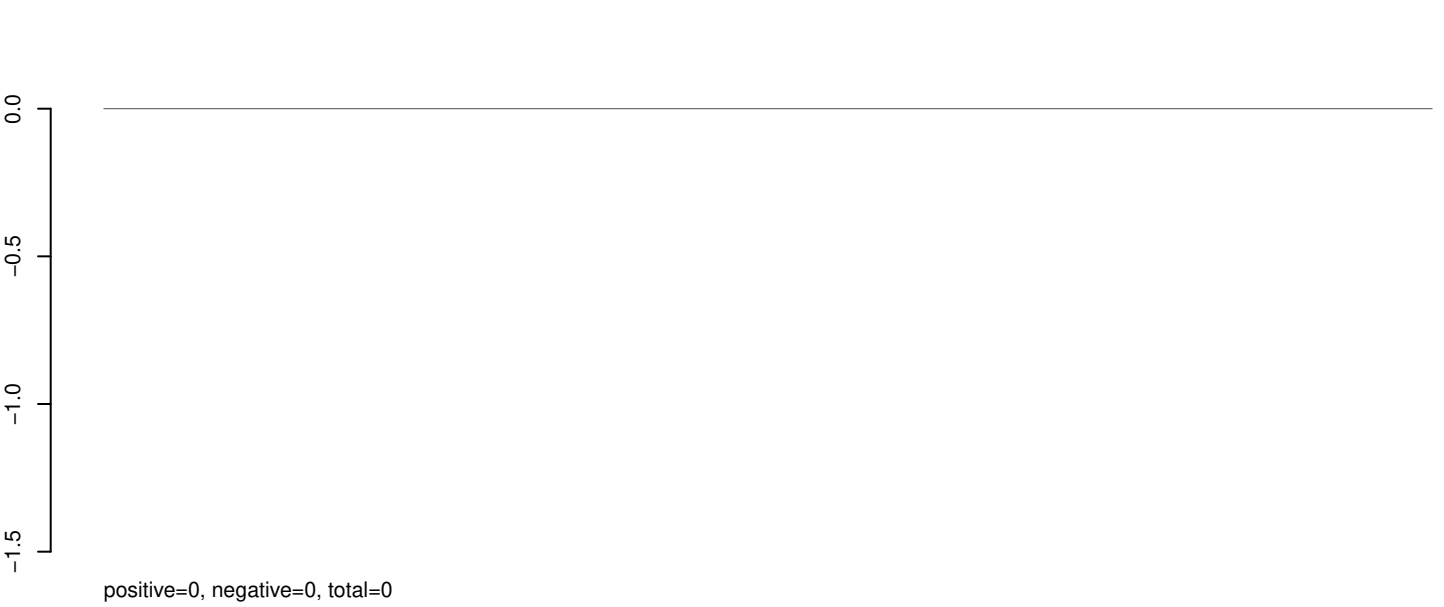


Window size=25, length=11877, virus@NC\_016962.1-Bebaru\_virus:1-11877

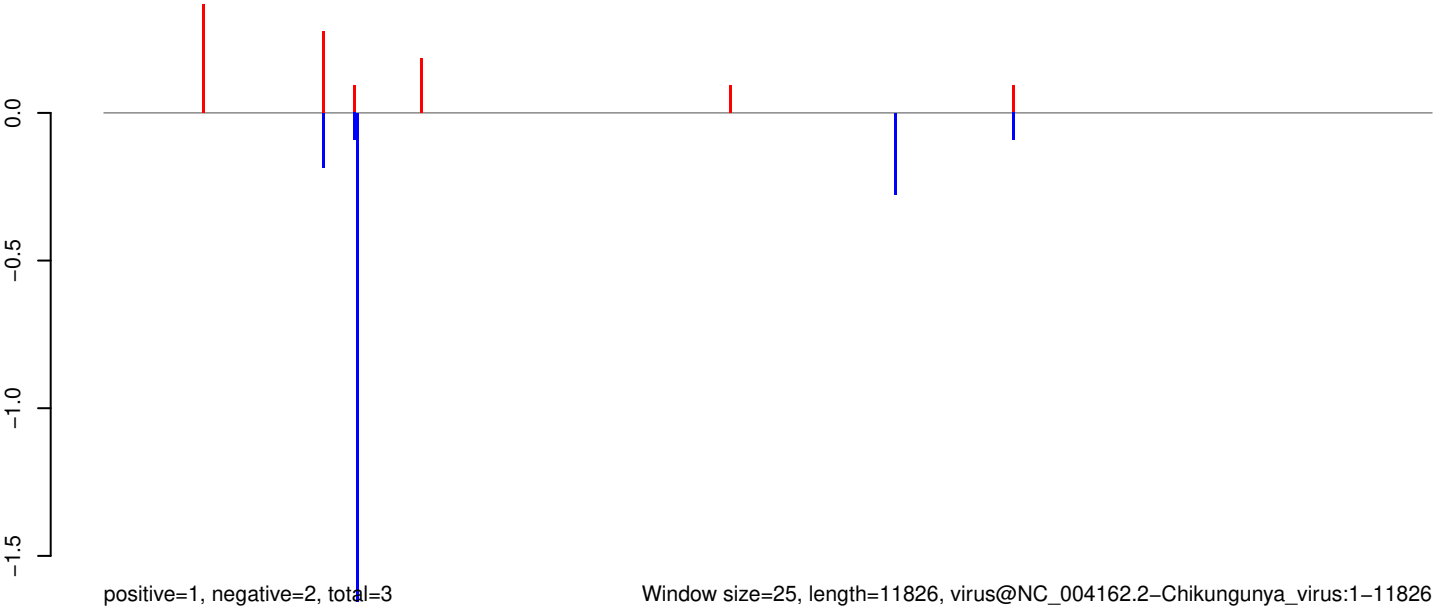
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



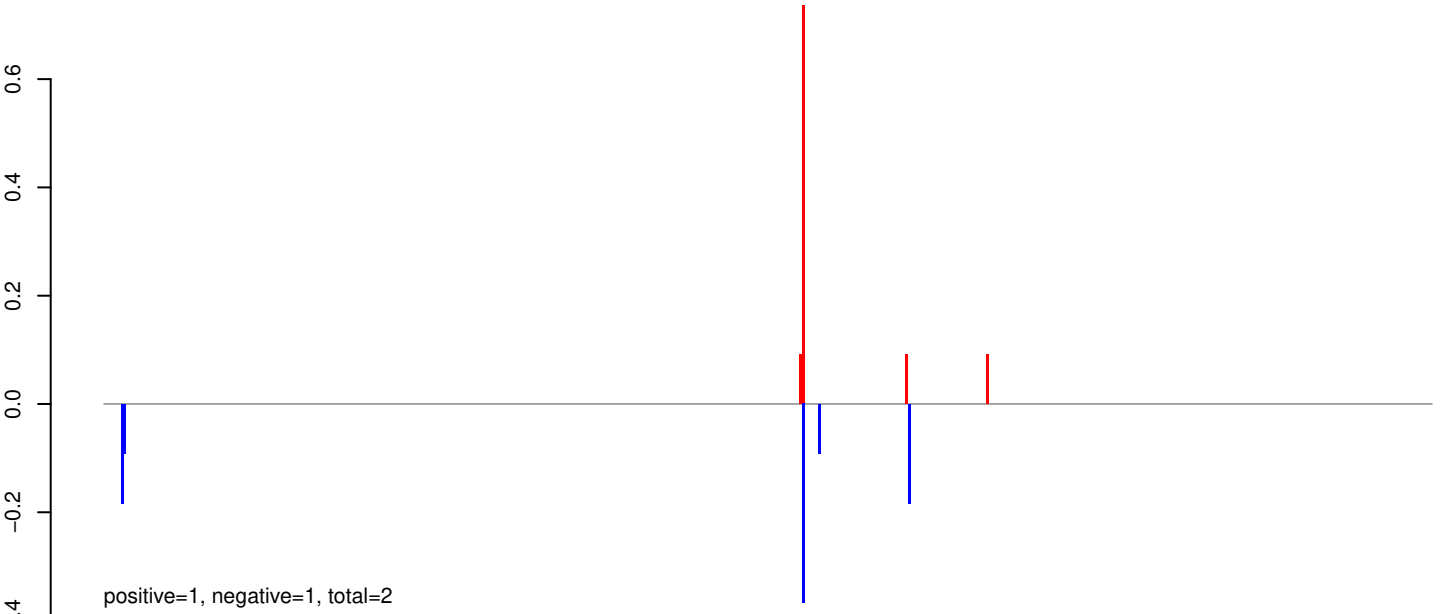
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



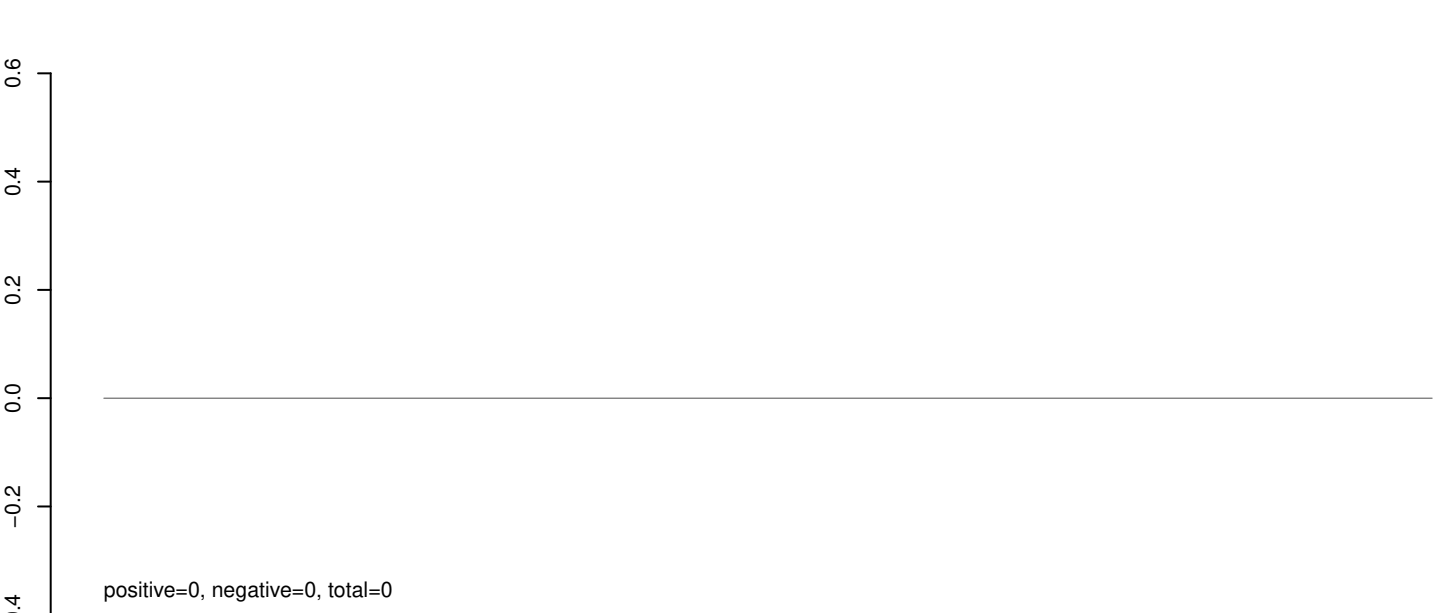
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



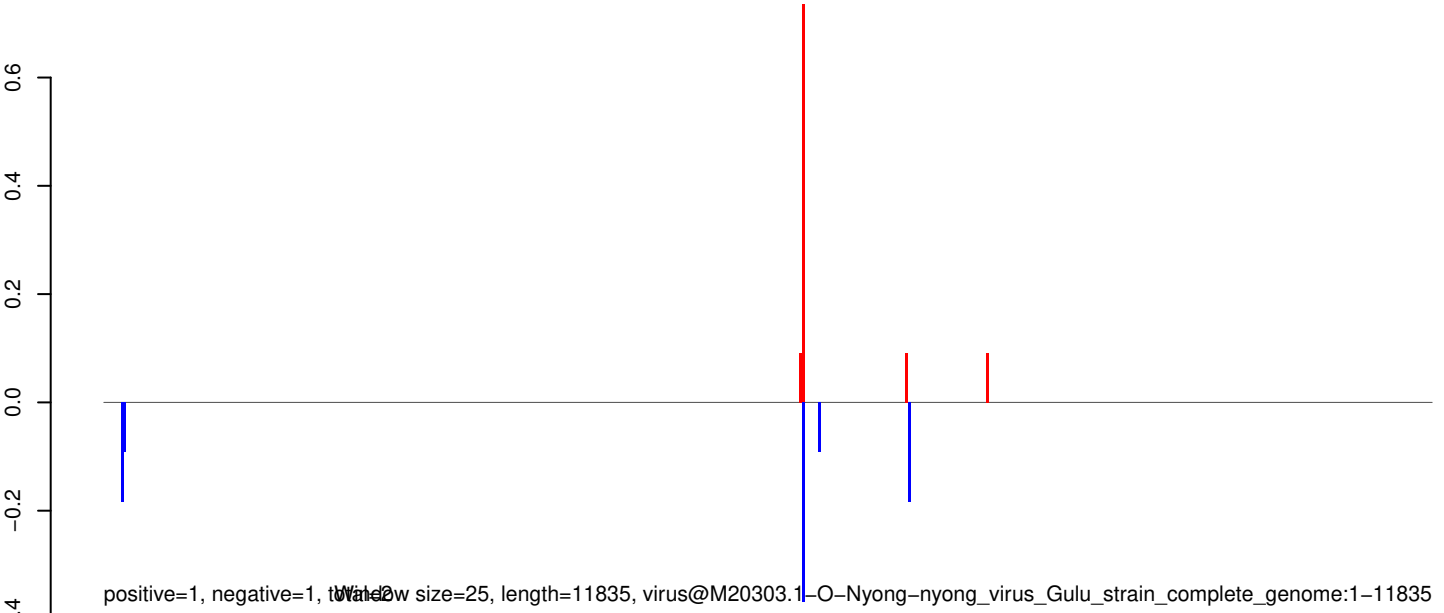
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

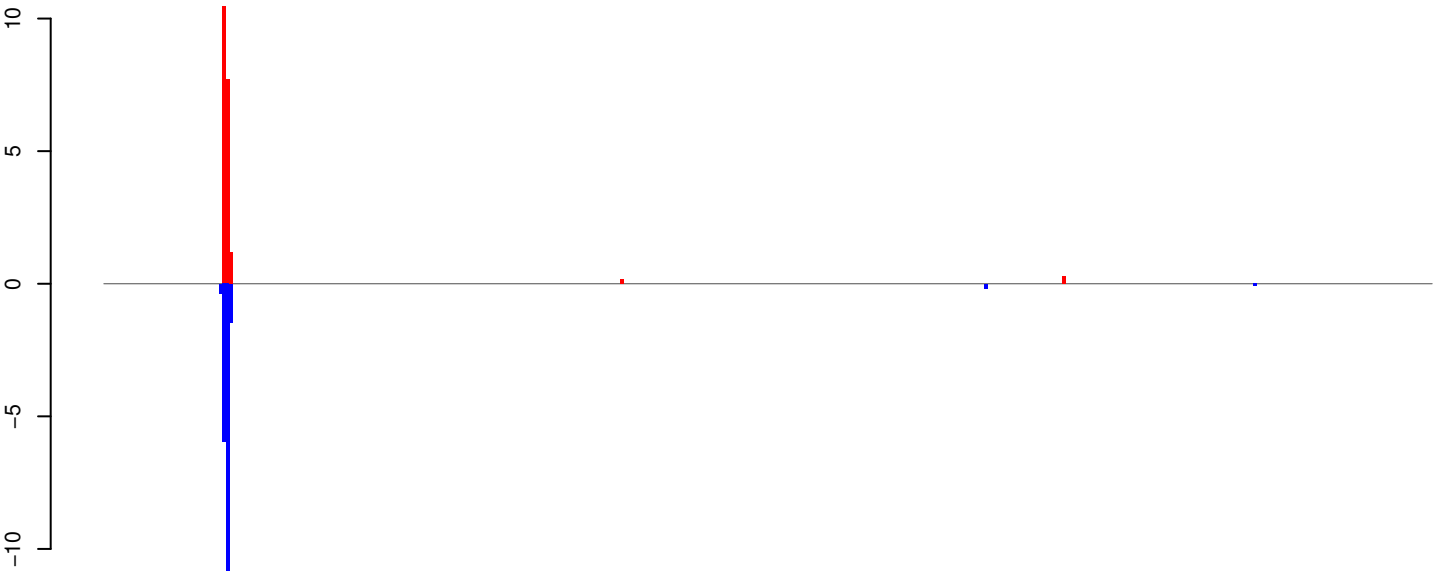


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

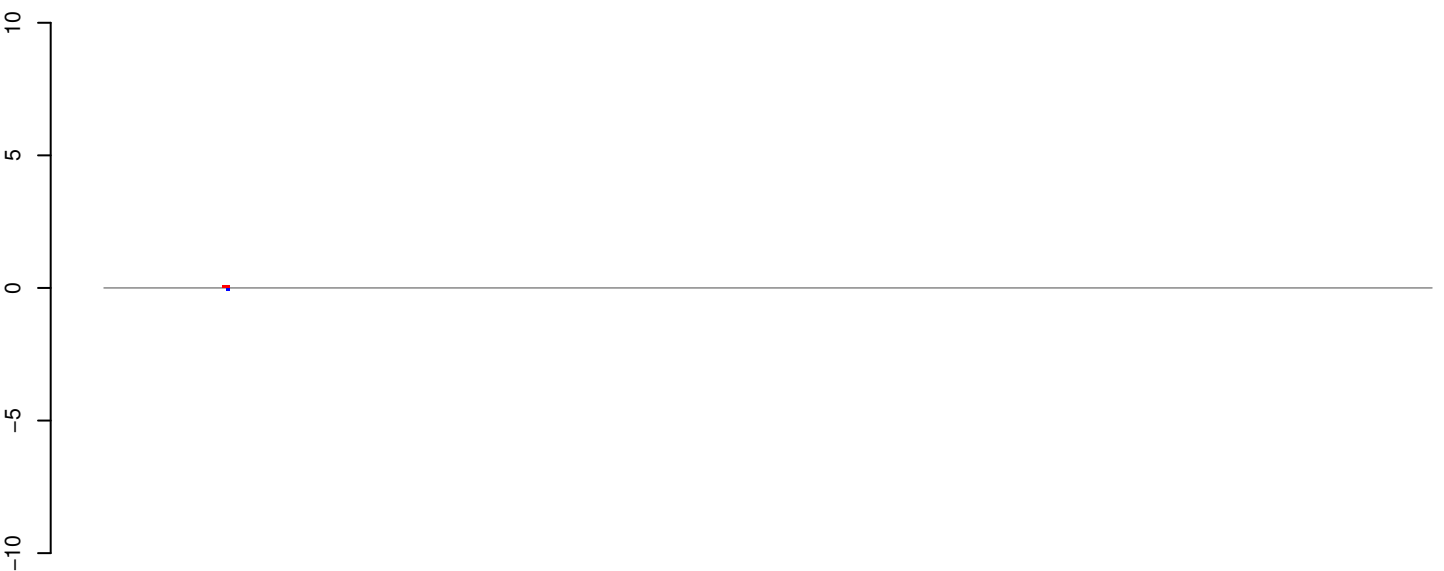




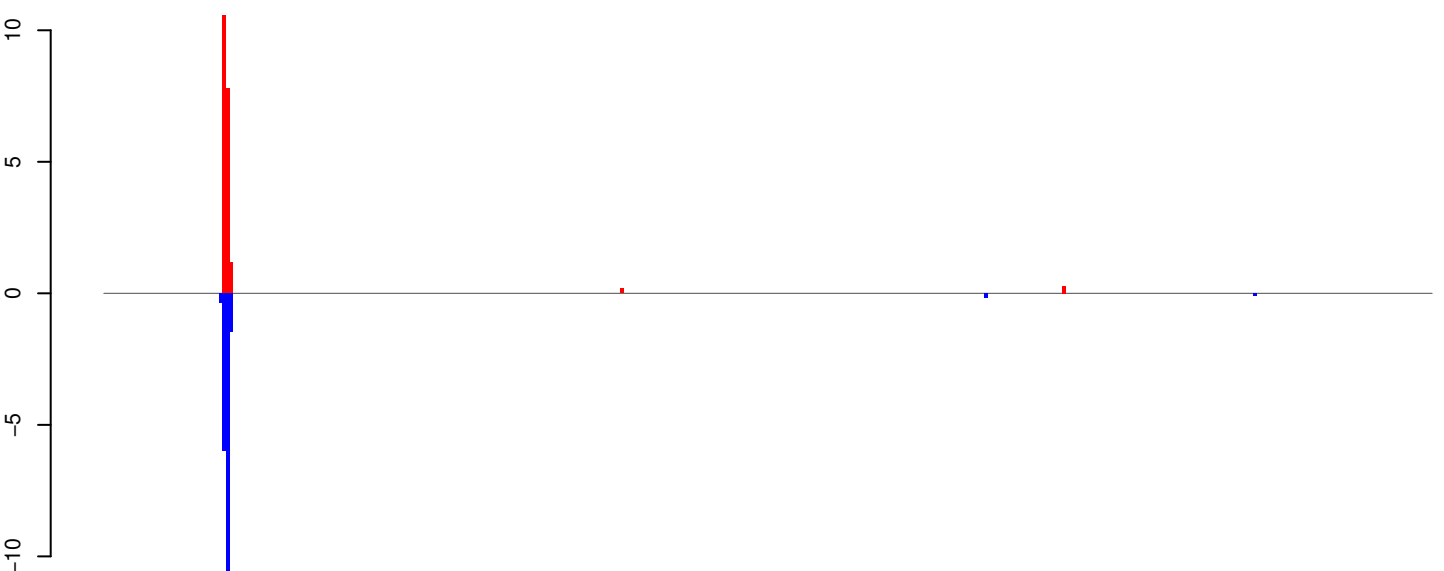
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



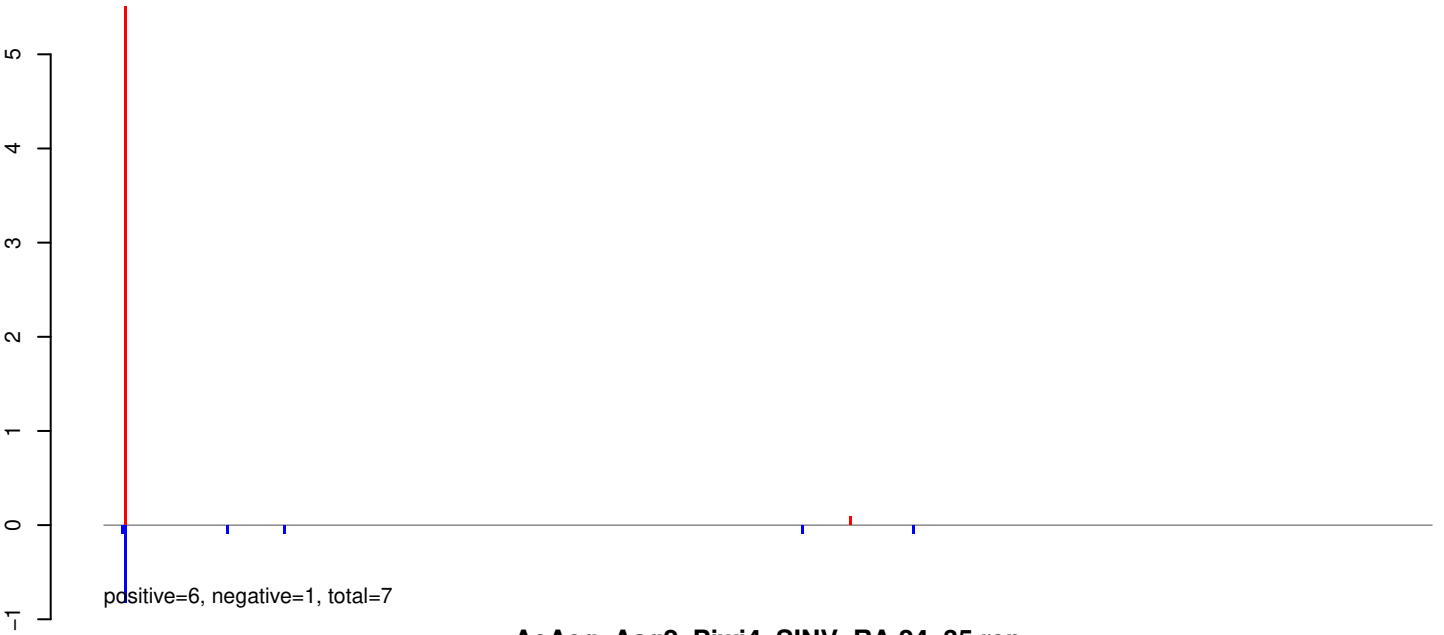
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



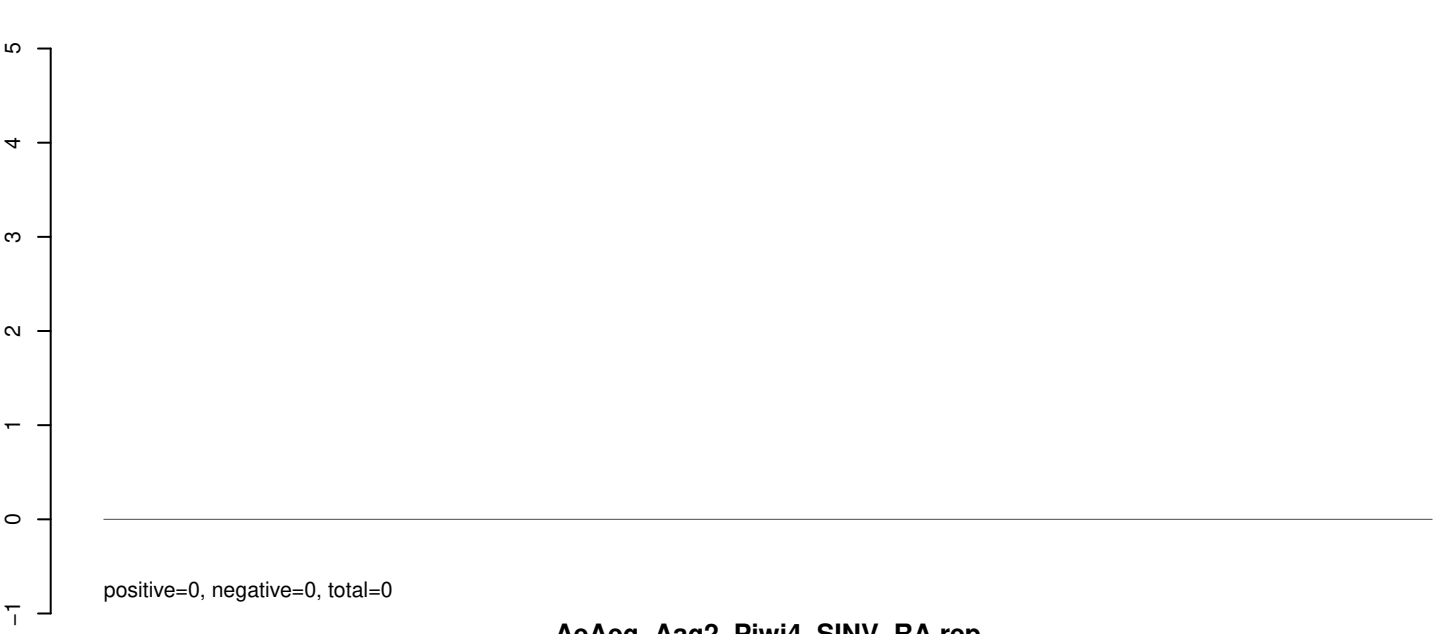
CP8252:1-10587-Aedes albopictus\_cell\_fusing\_agent\_virus\_polyprotein-like\_protein\_gene\_and\_ag

0 2000 4000 6000 8000 10000

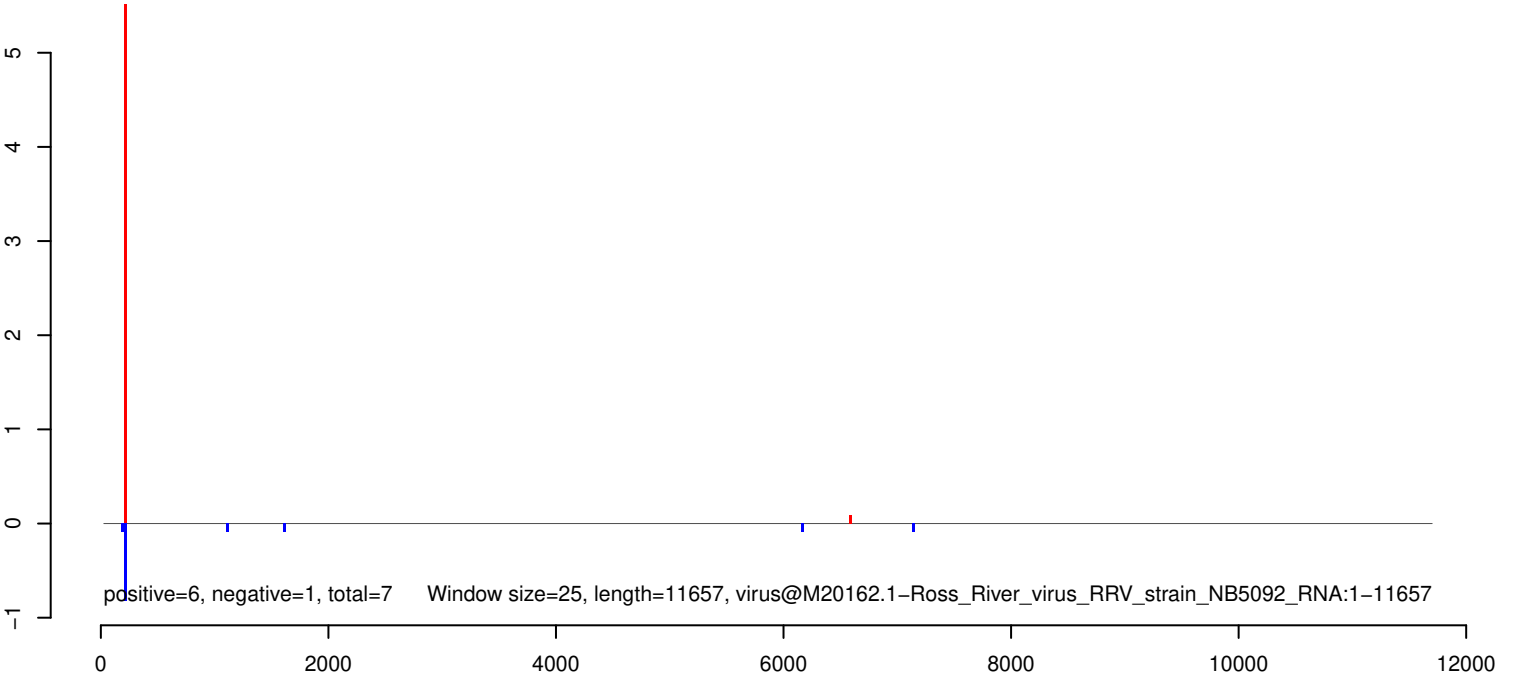
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



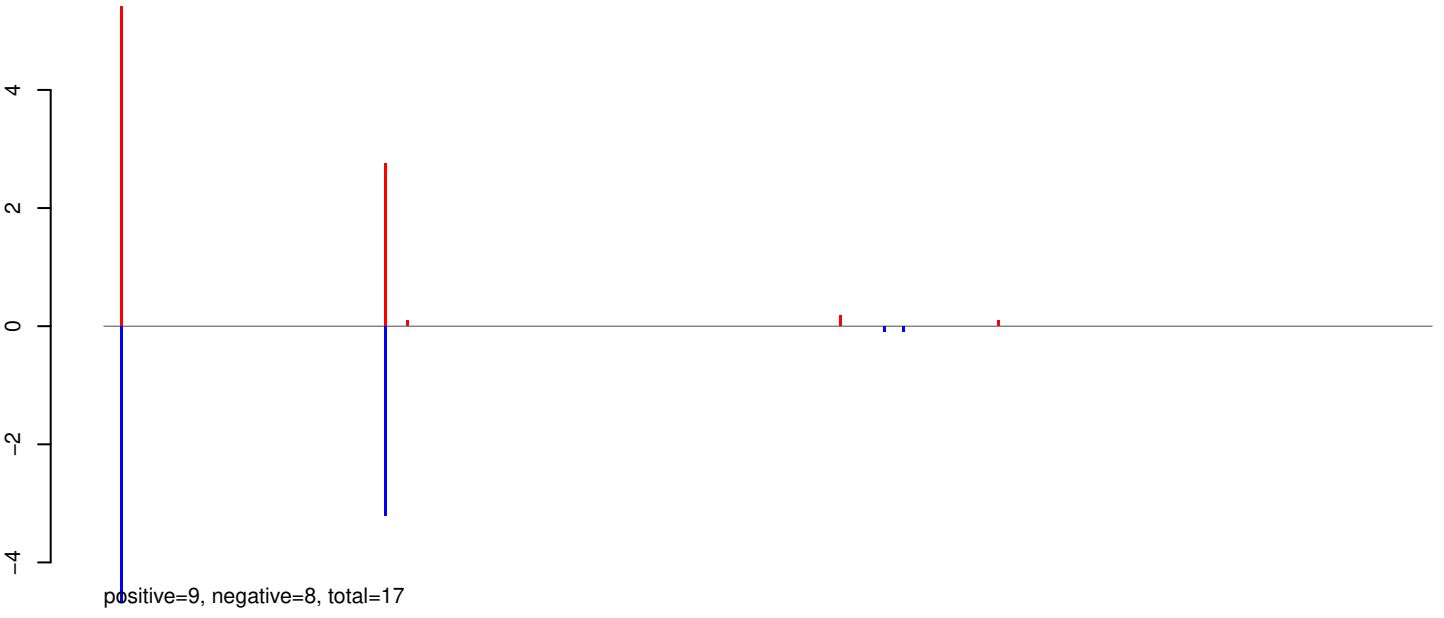
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



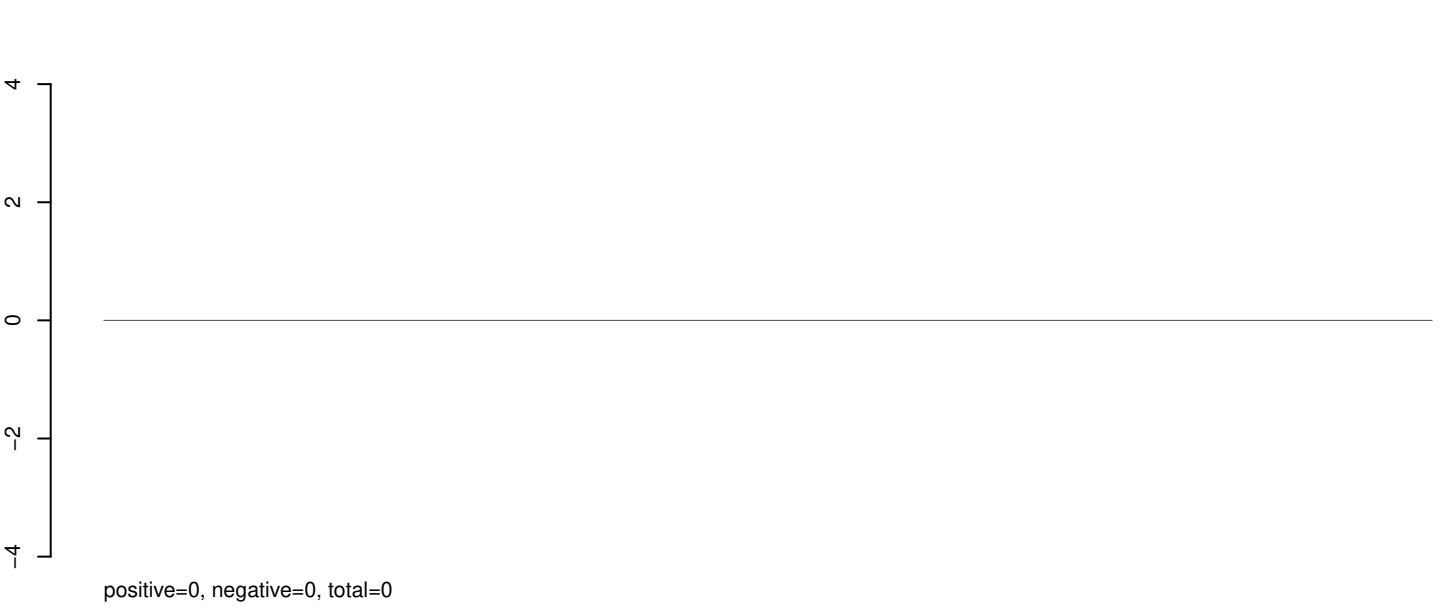
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



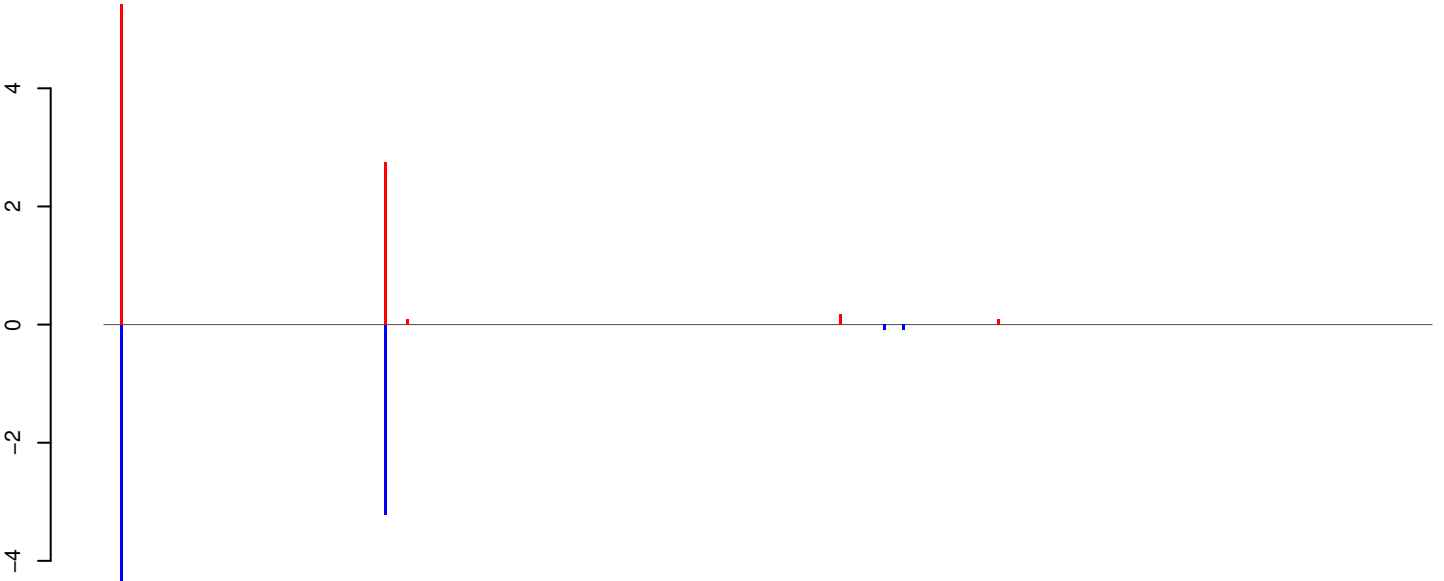
### AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep



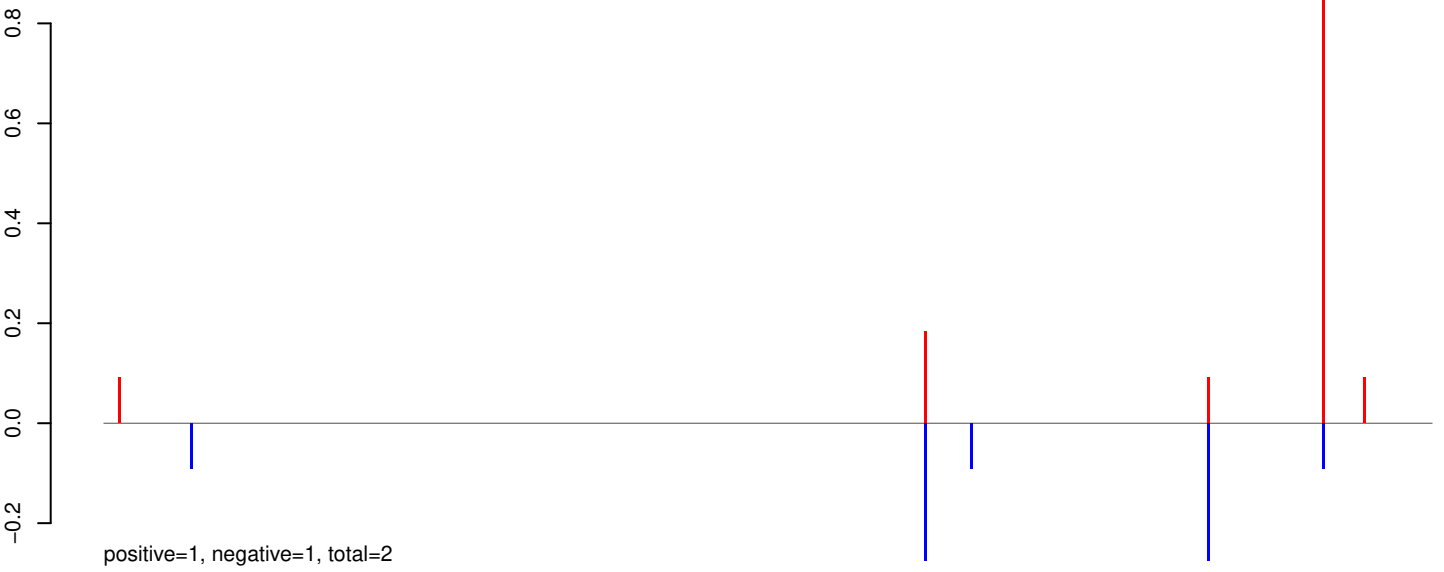
### AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep



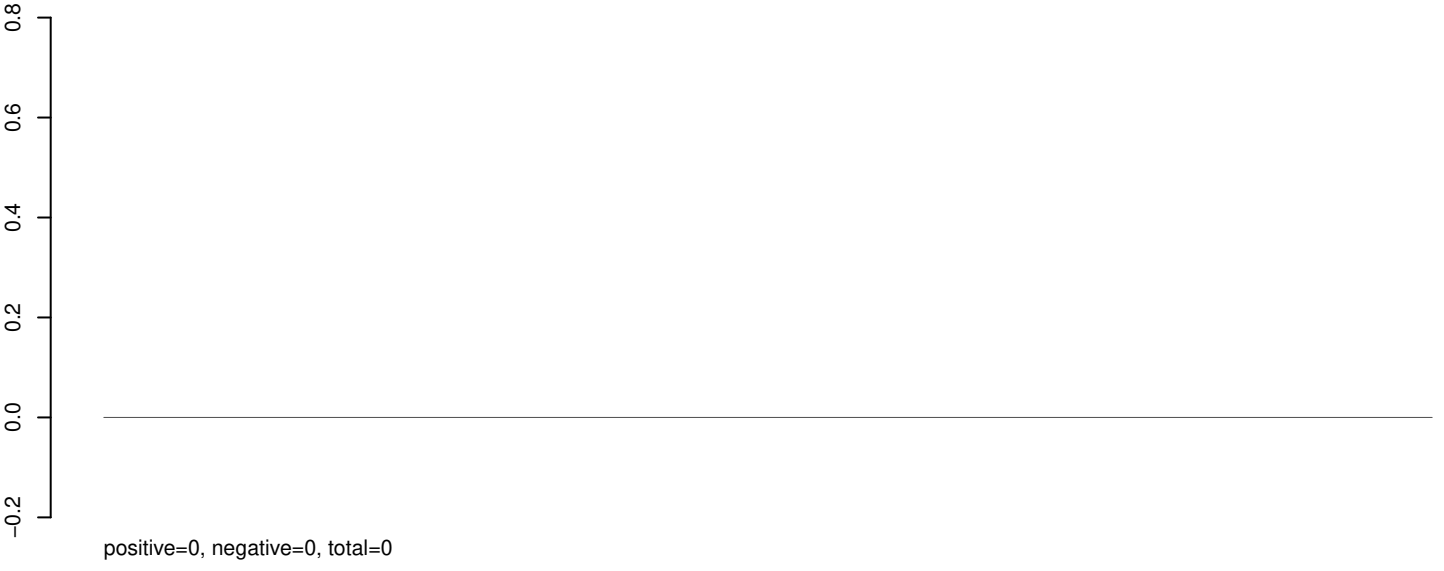
### AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep



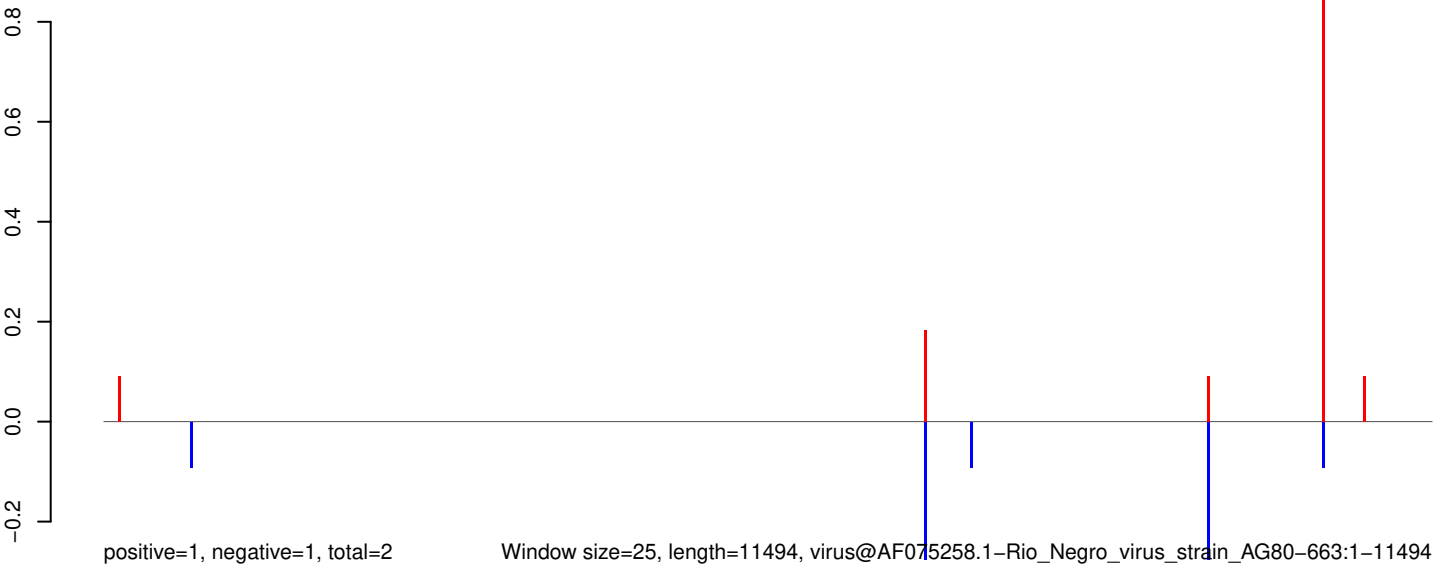
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

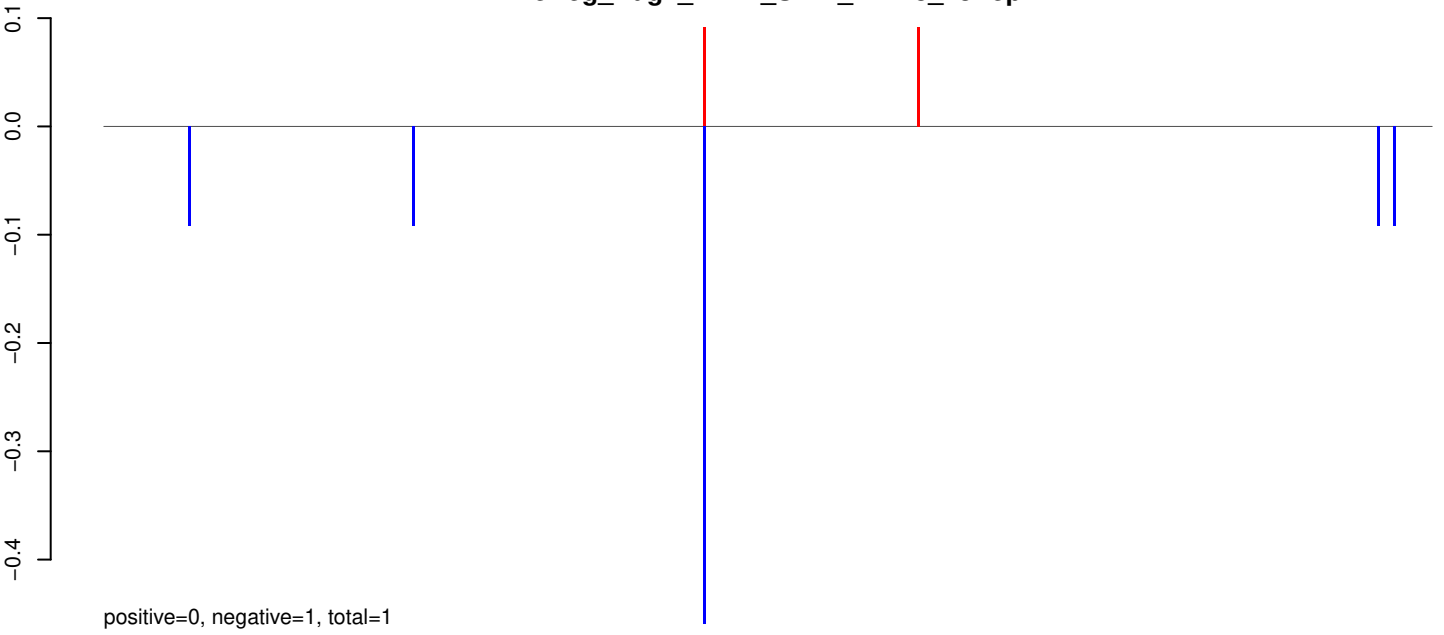


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

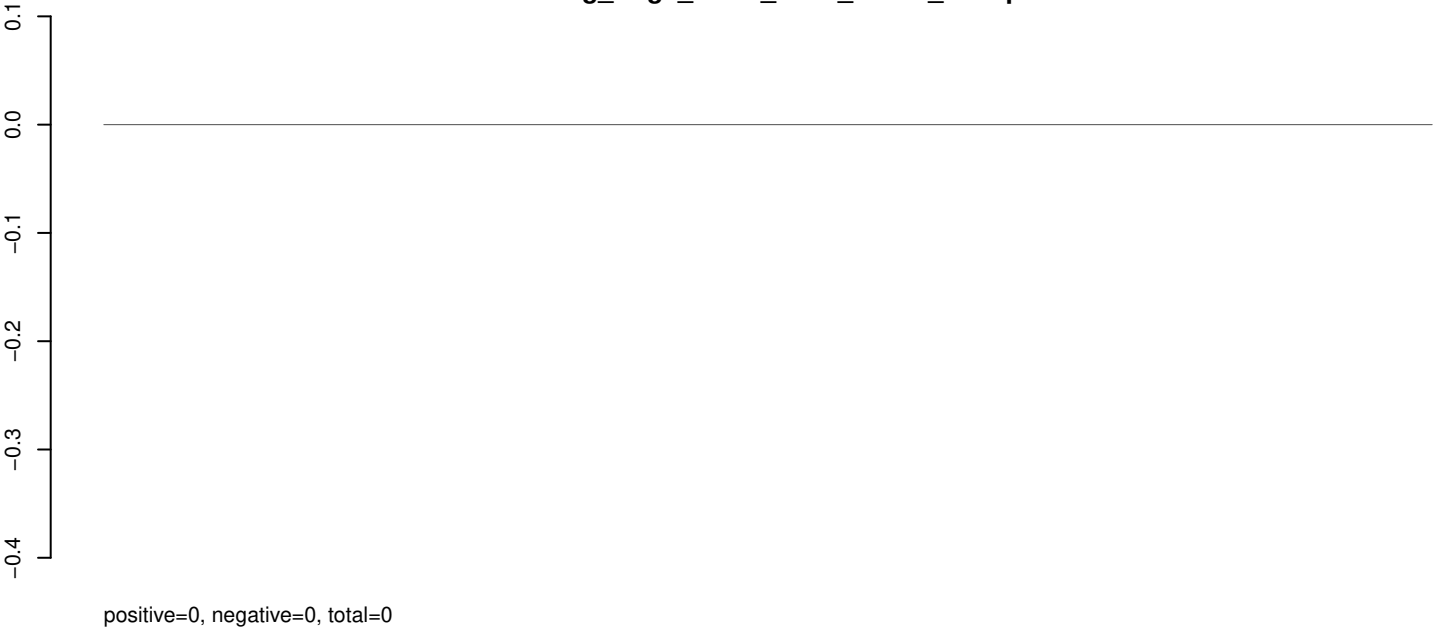


0 2000 4000 6000 8000 10000

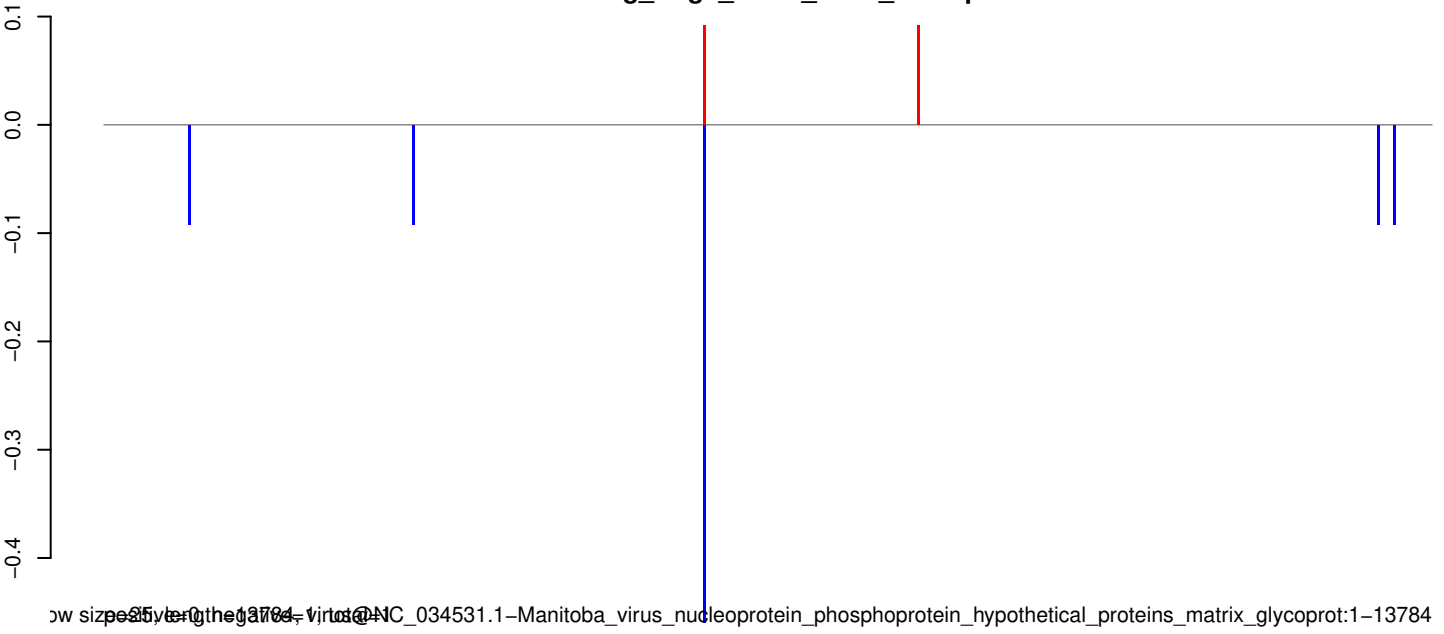
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



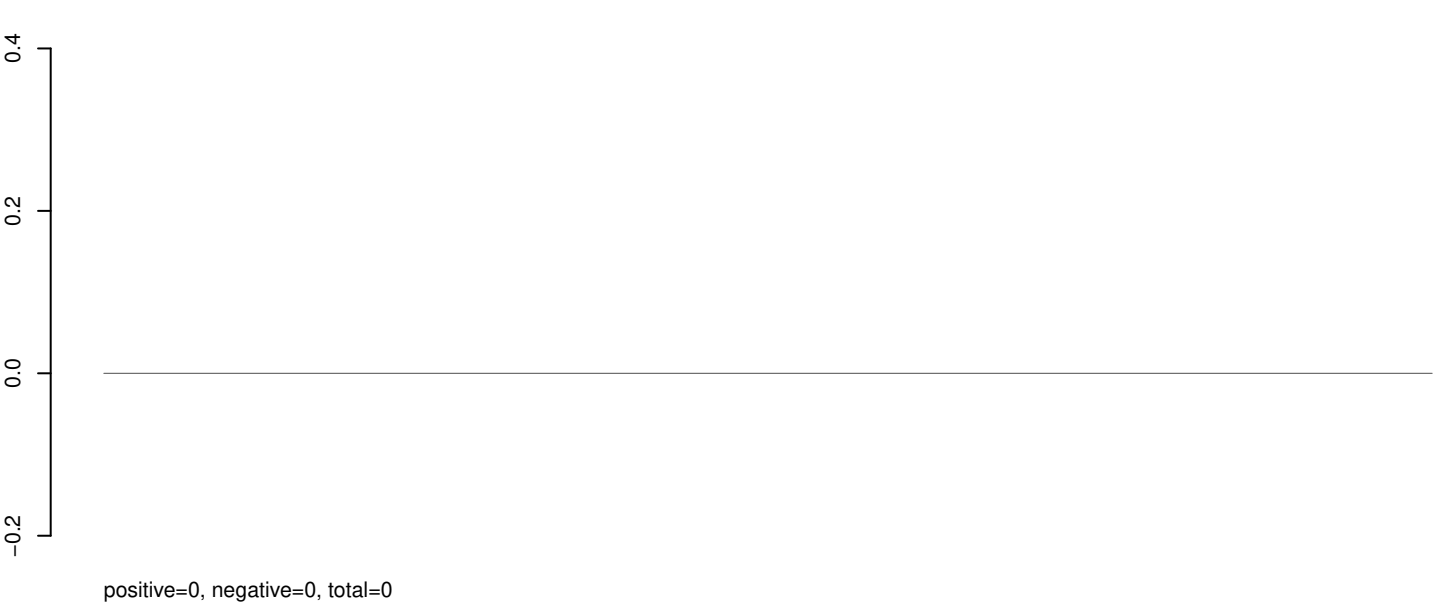
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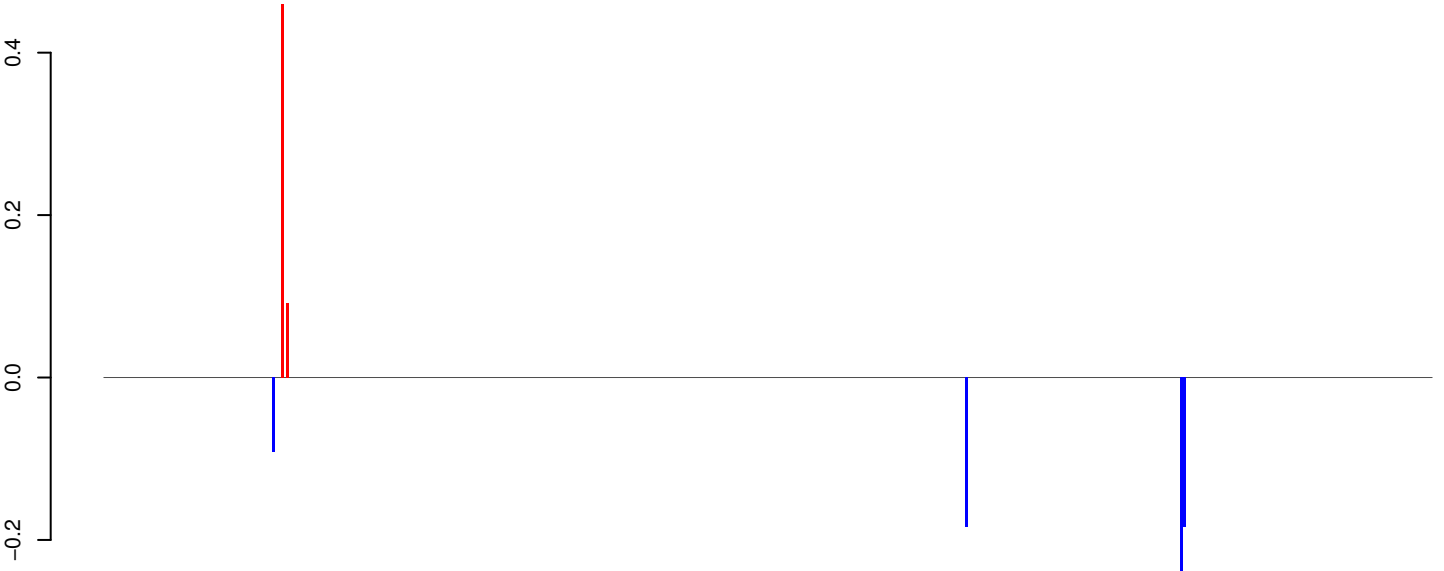
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

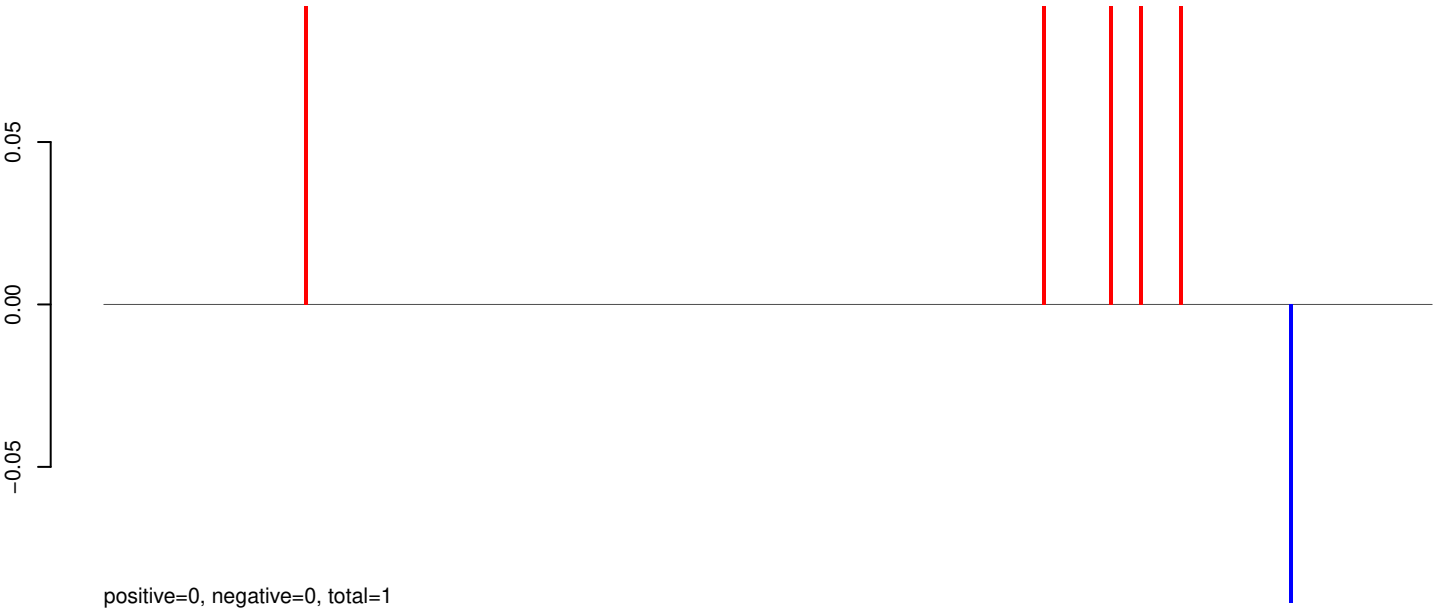


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

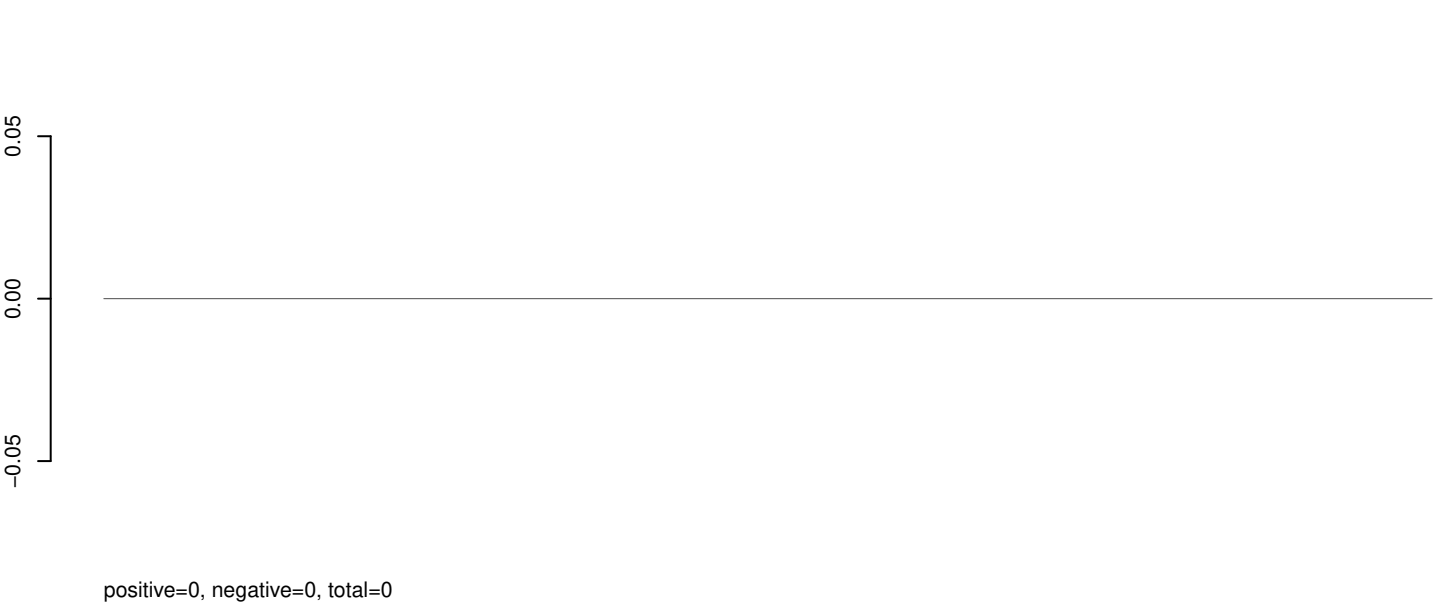




**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

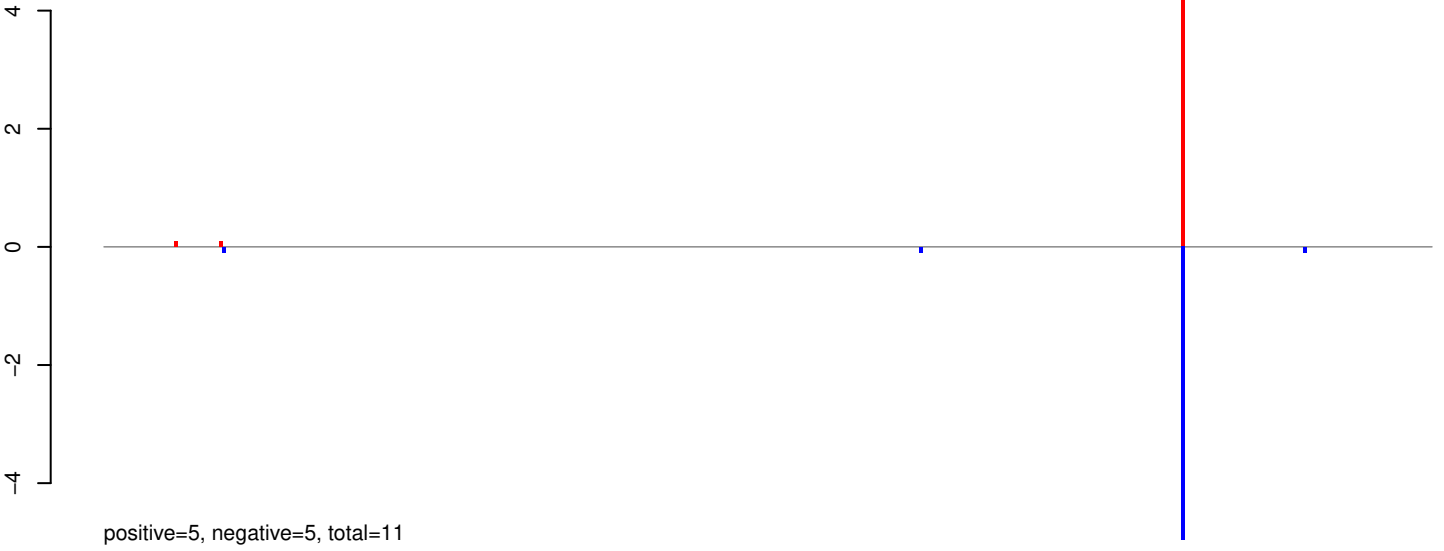


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

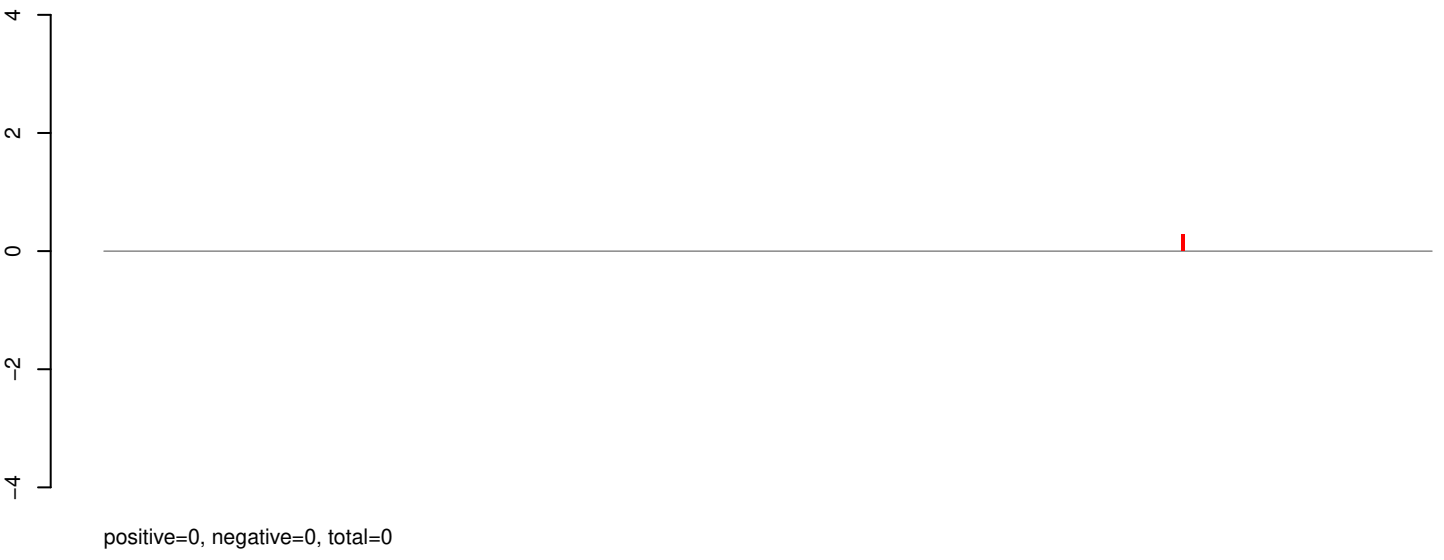




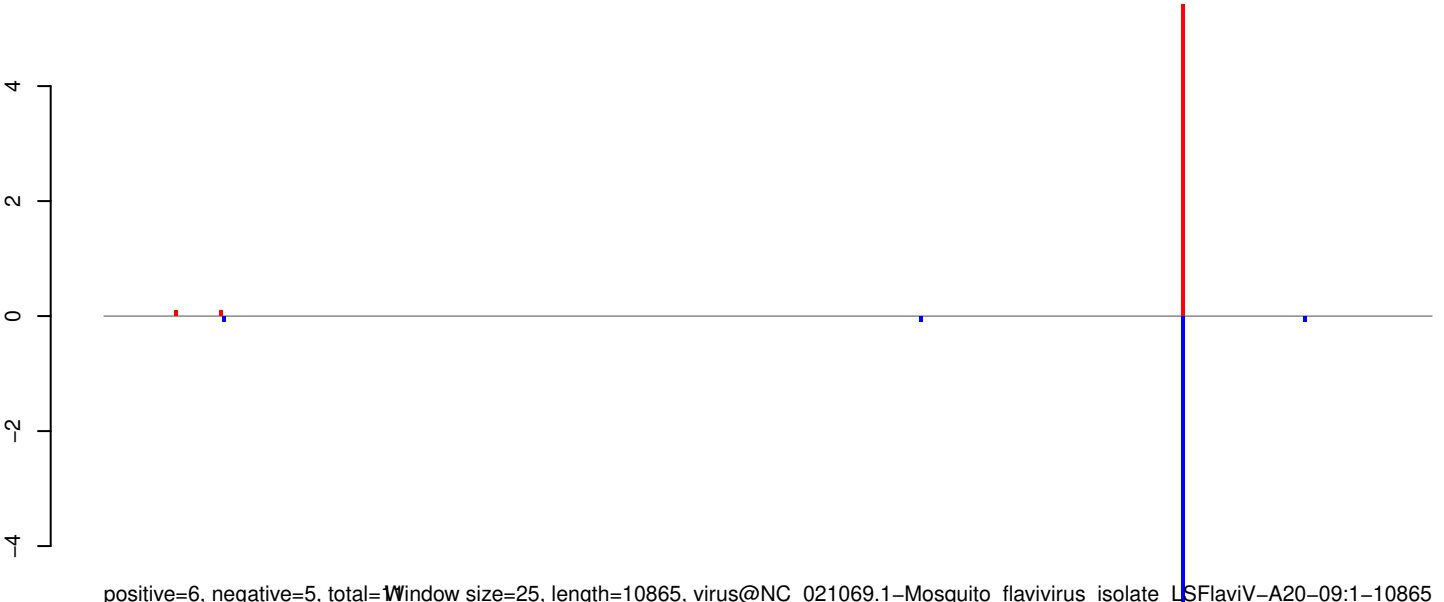
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



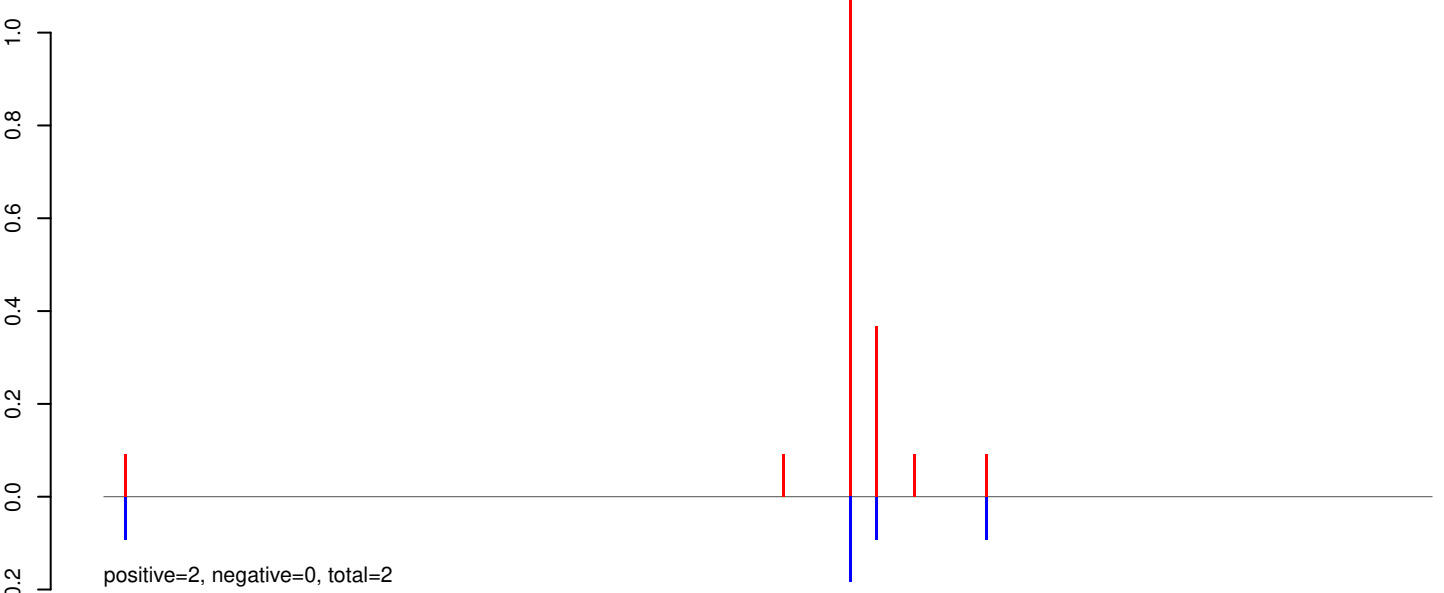
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



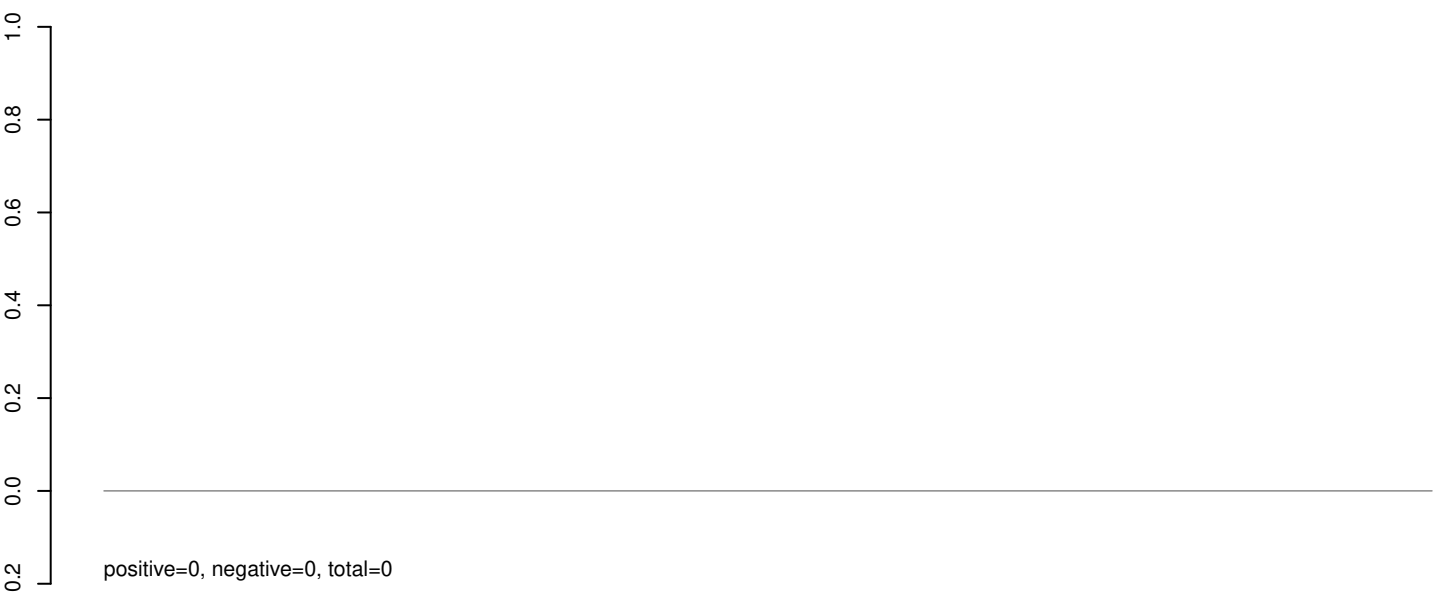
Window size=25, length=10865, virus@NC\_021069.1-Mosquito\_flavivirus\_isolate\_LSFlaviV-A20-09:1-10865

0 2000 4000 6000 8000 10000

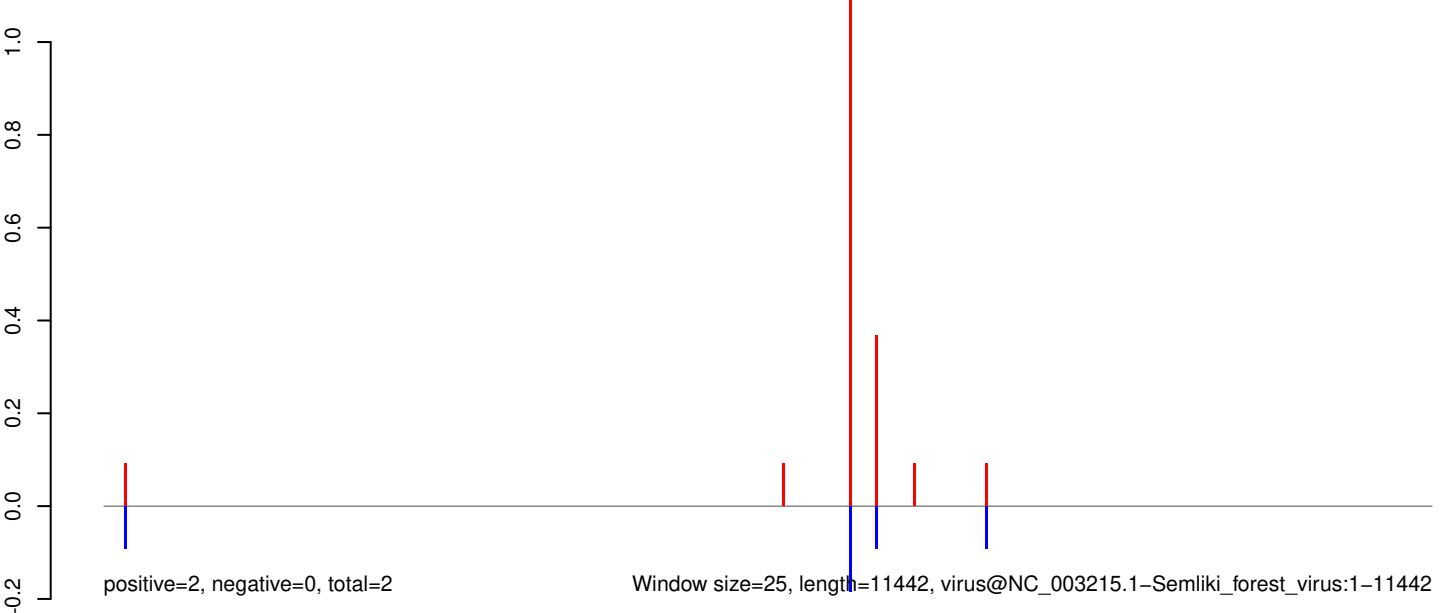
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



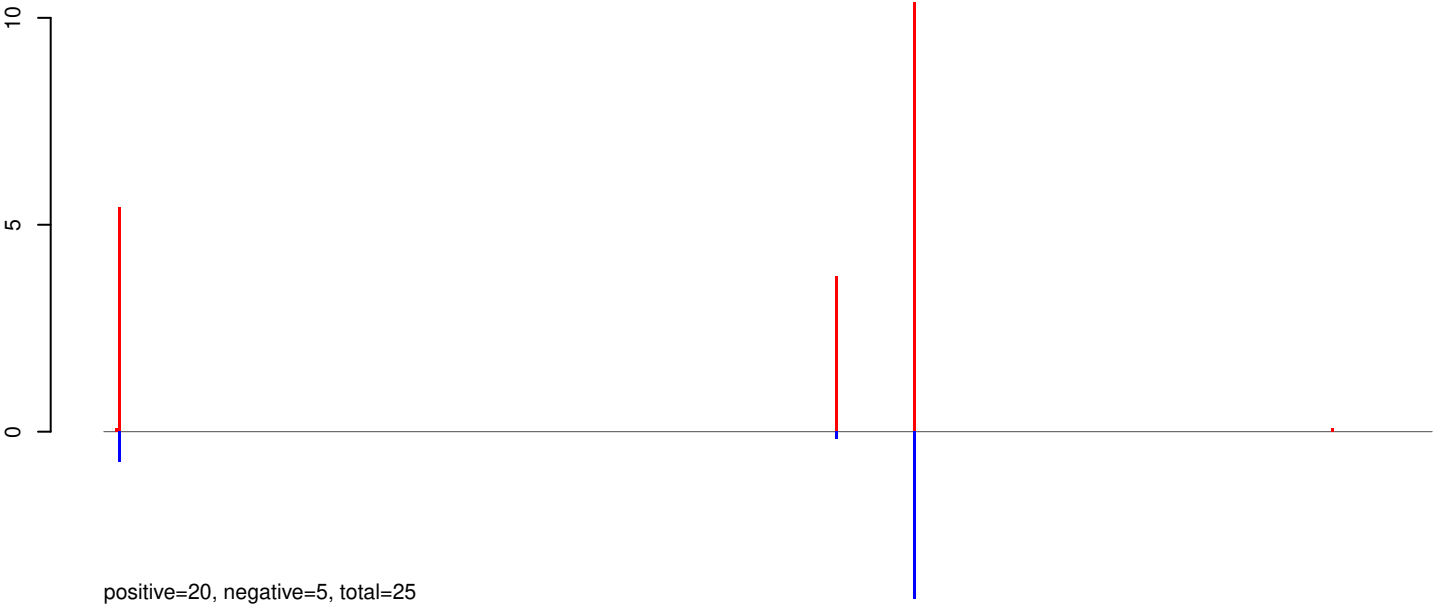
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



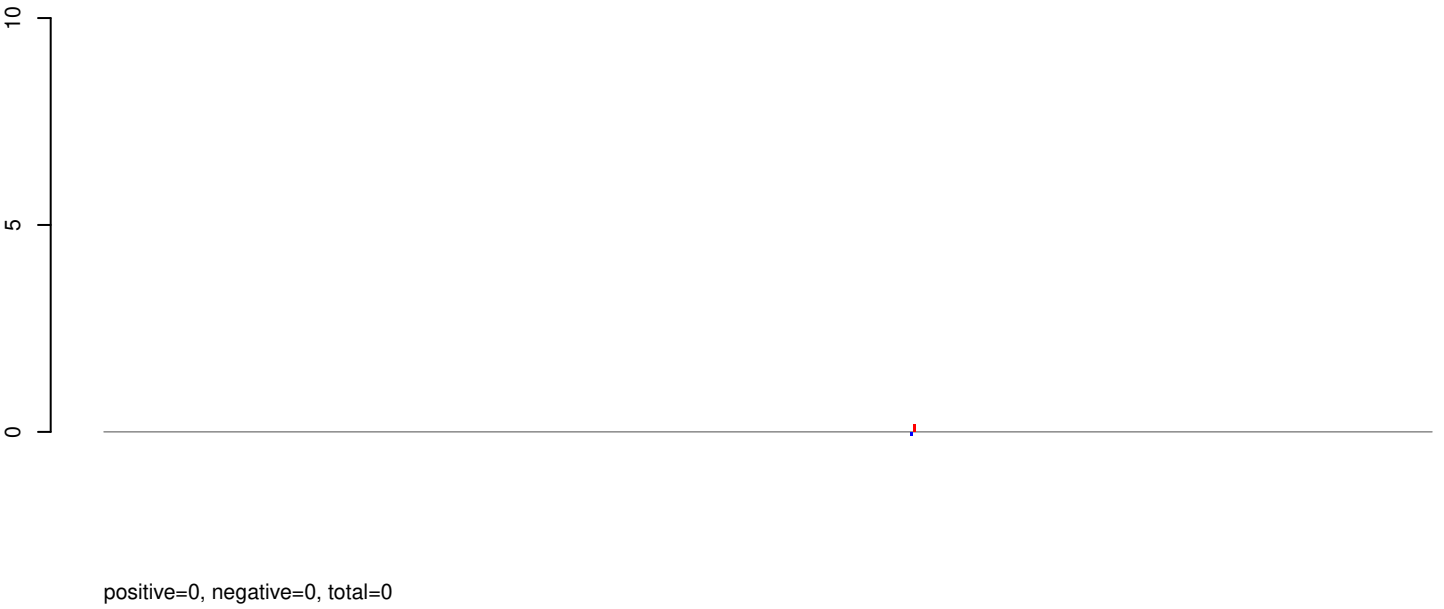
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0 2000 4000 6000 8000 10000

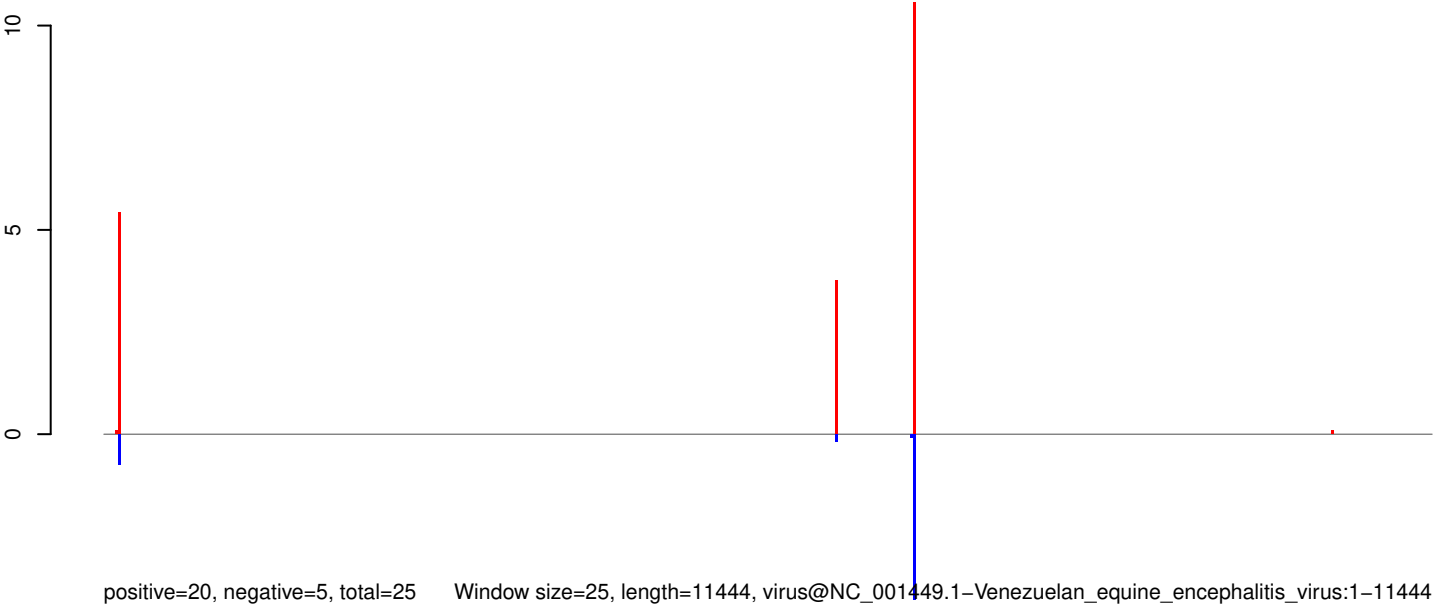
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



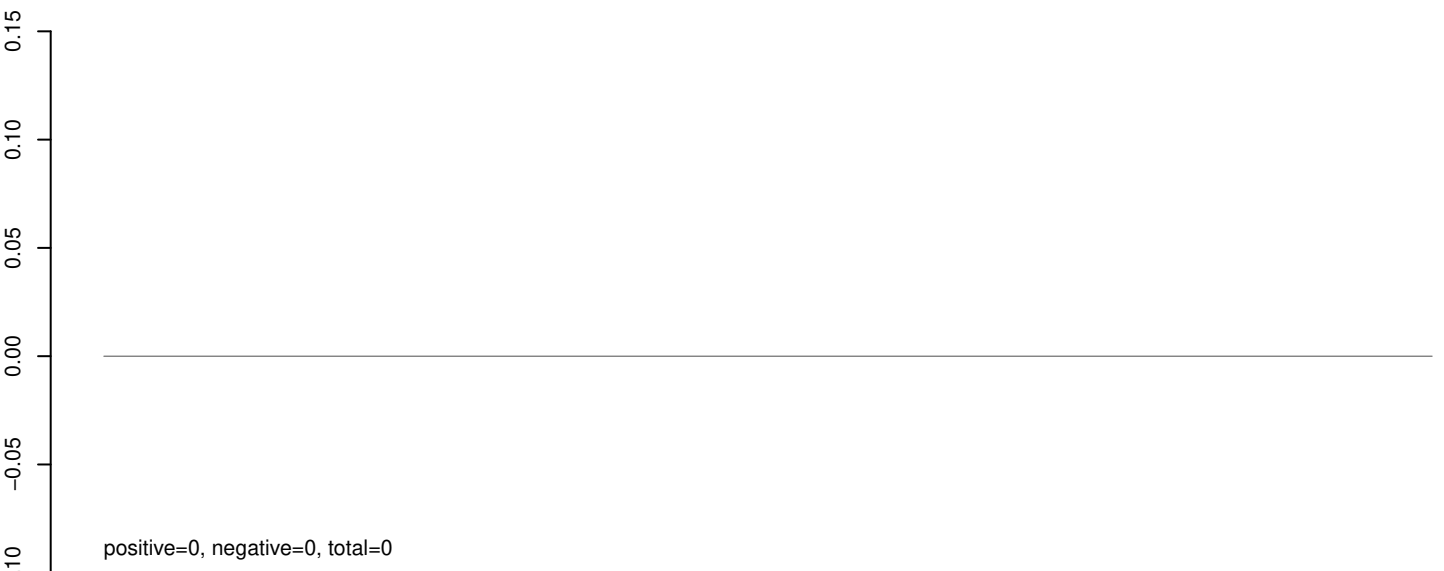
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0 2000 4000 6000 8000 10000

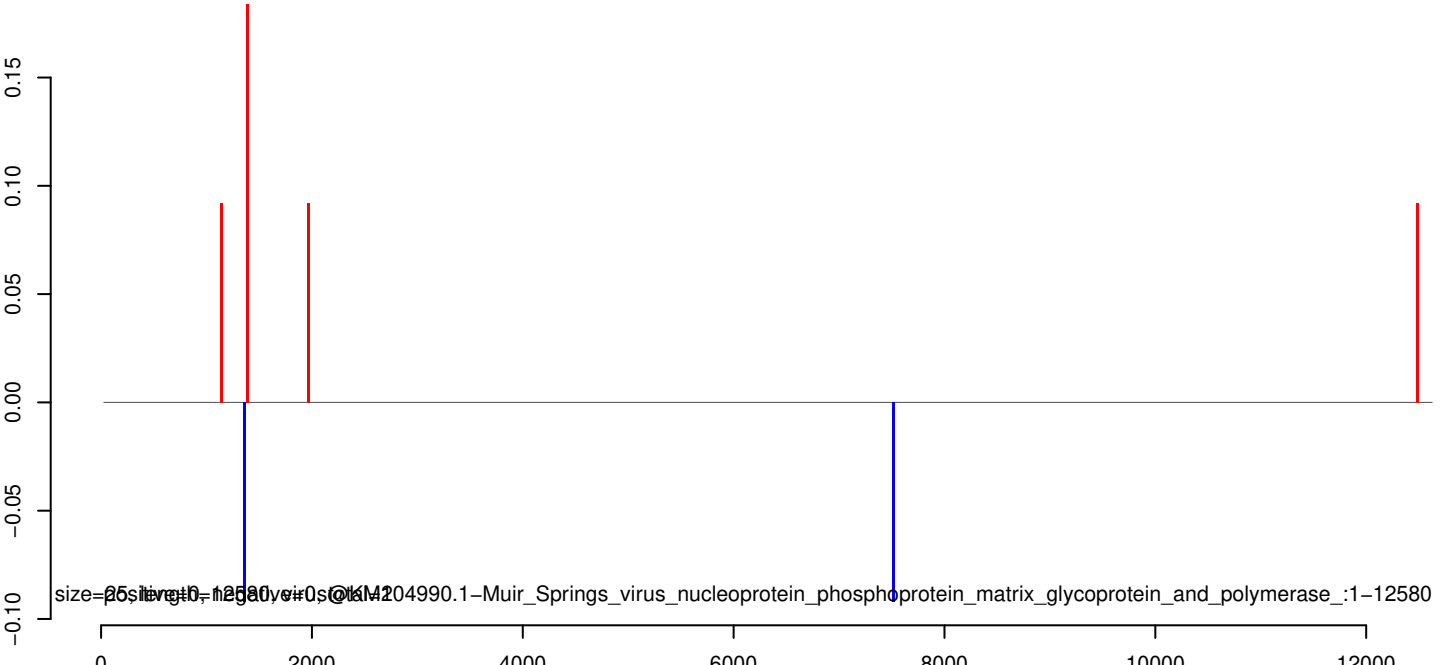
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



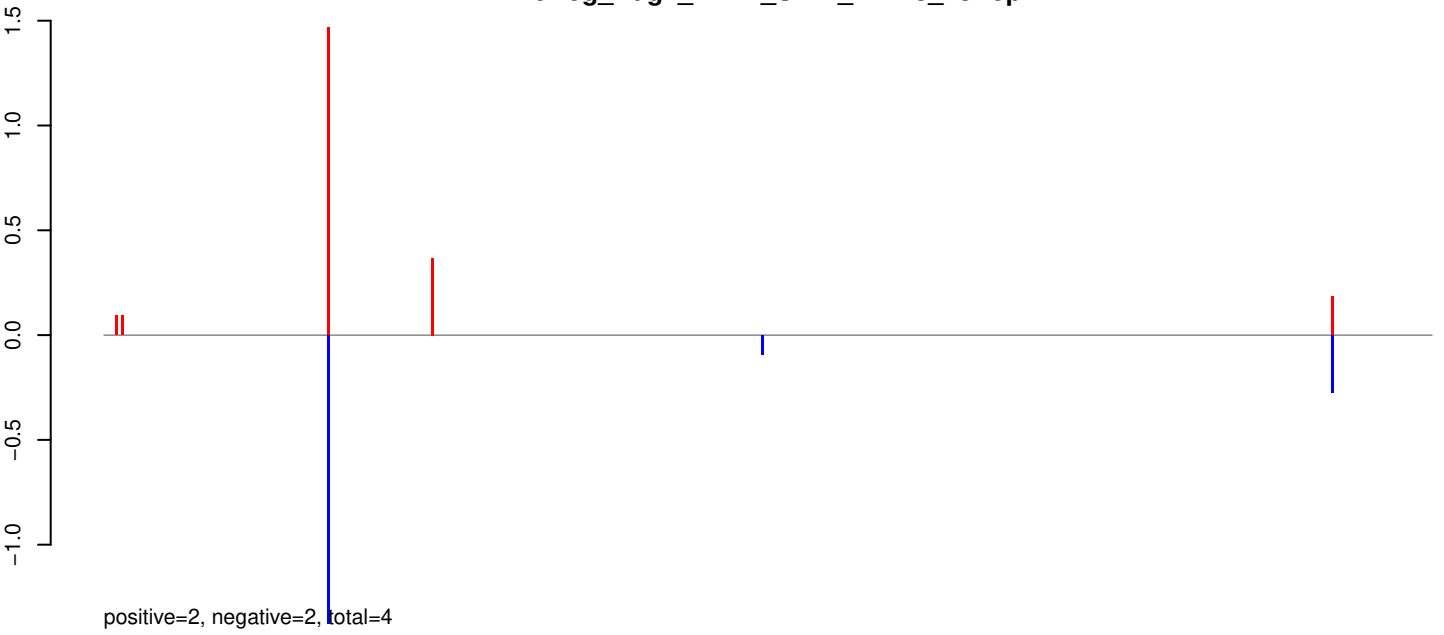
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



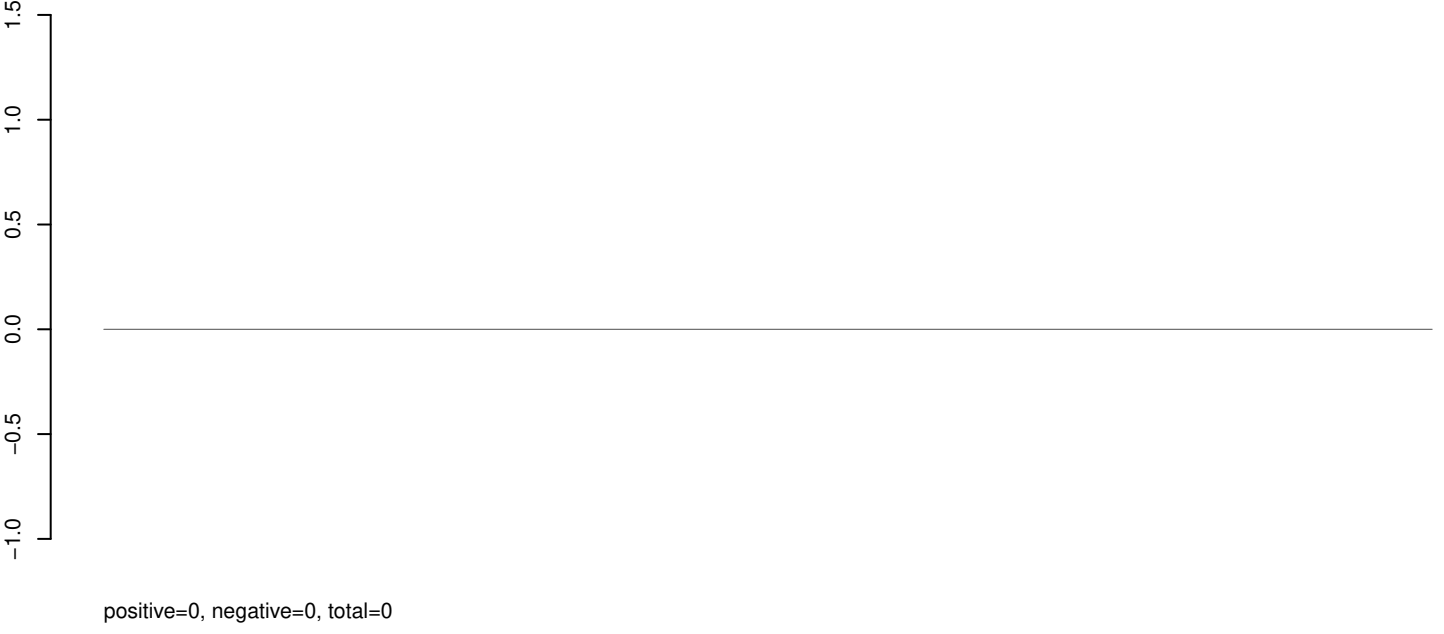
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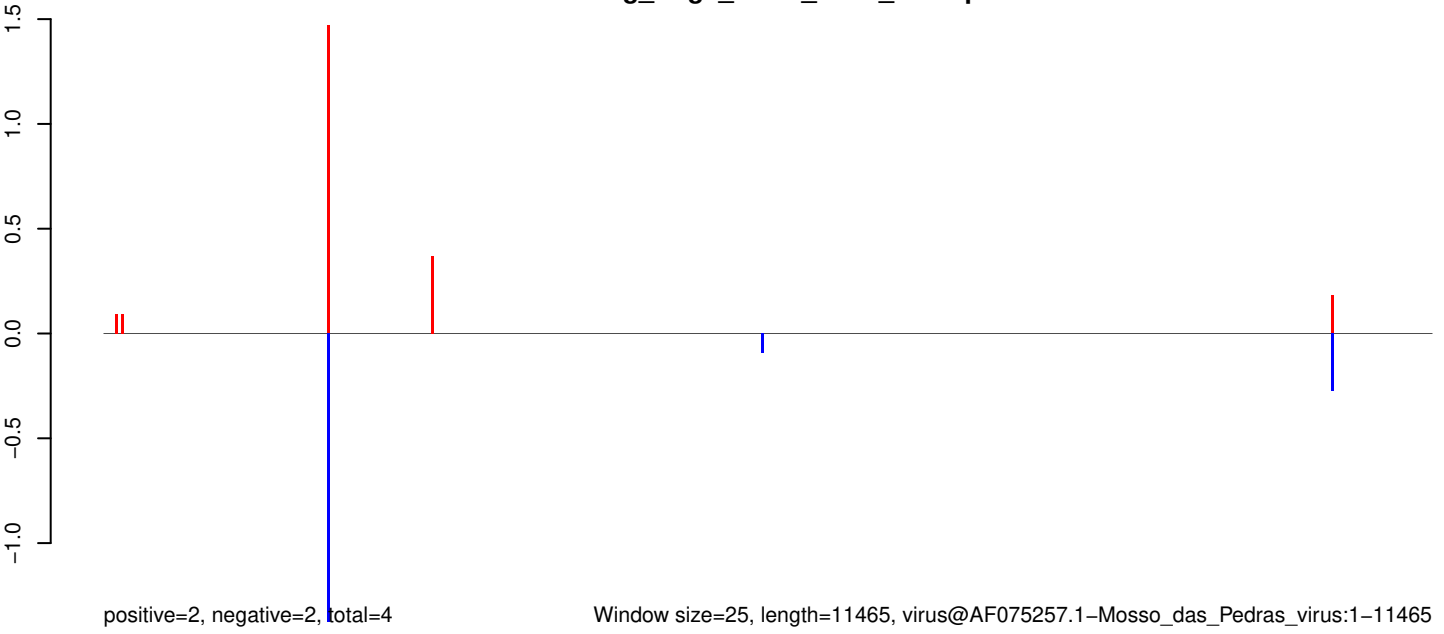
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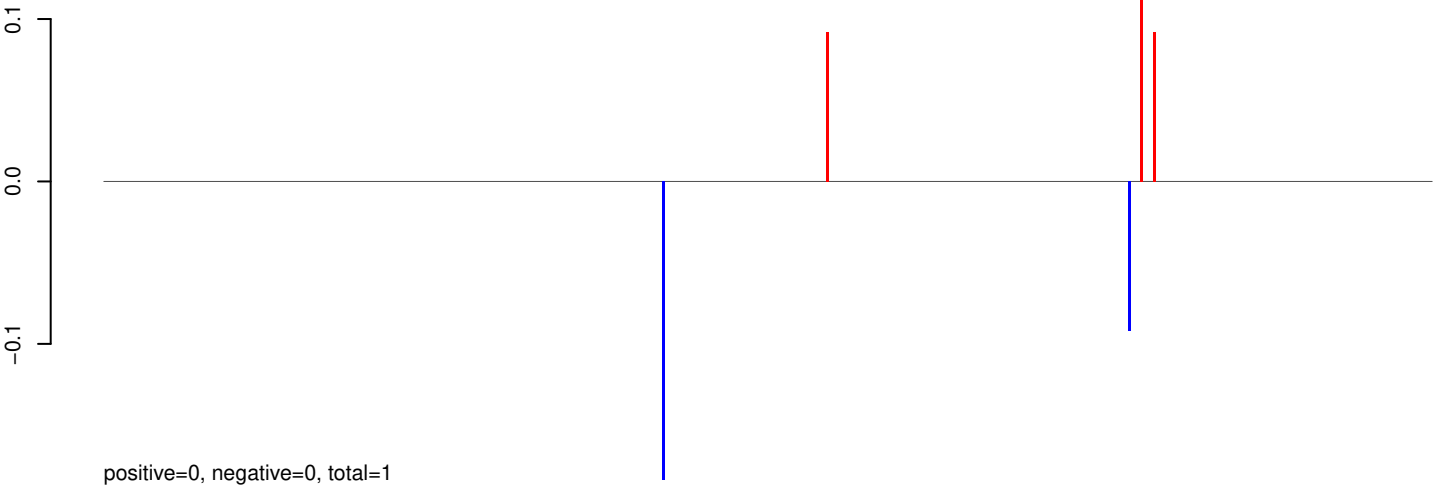
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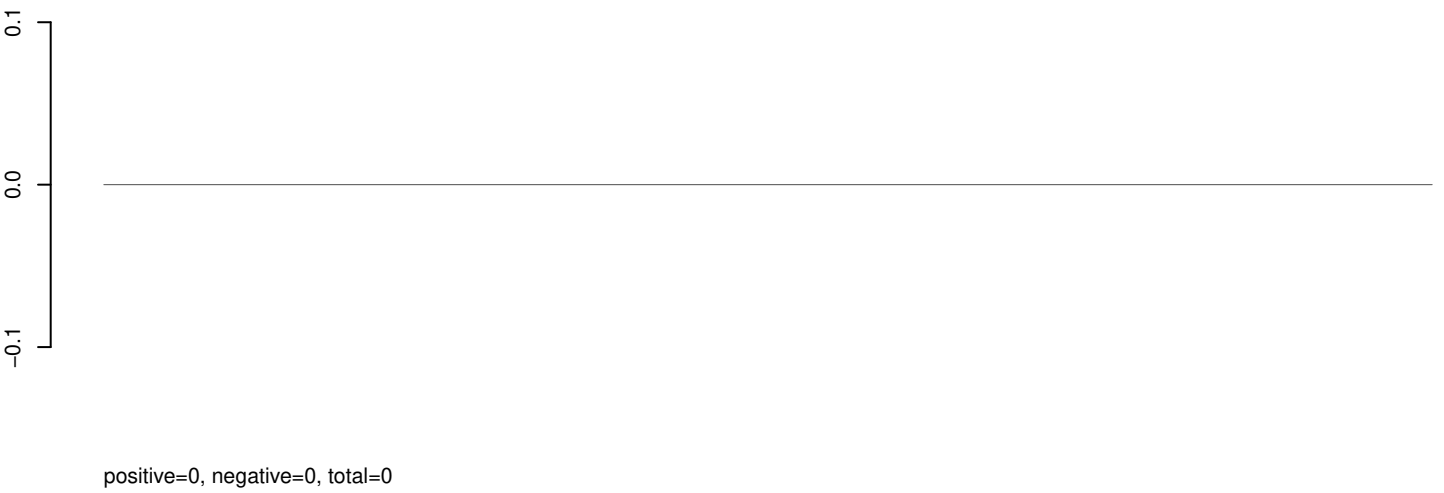
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



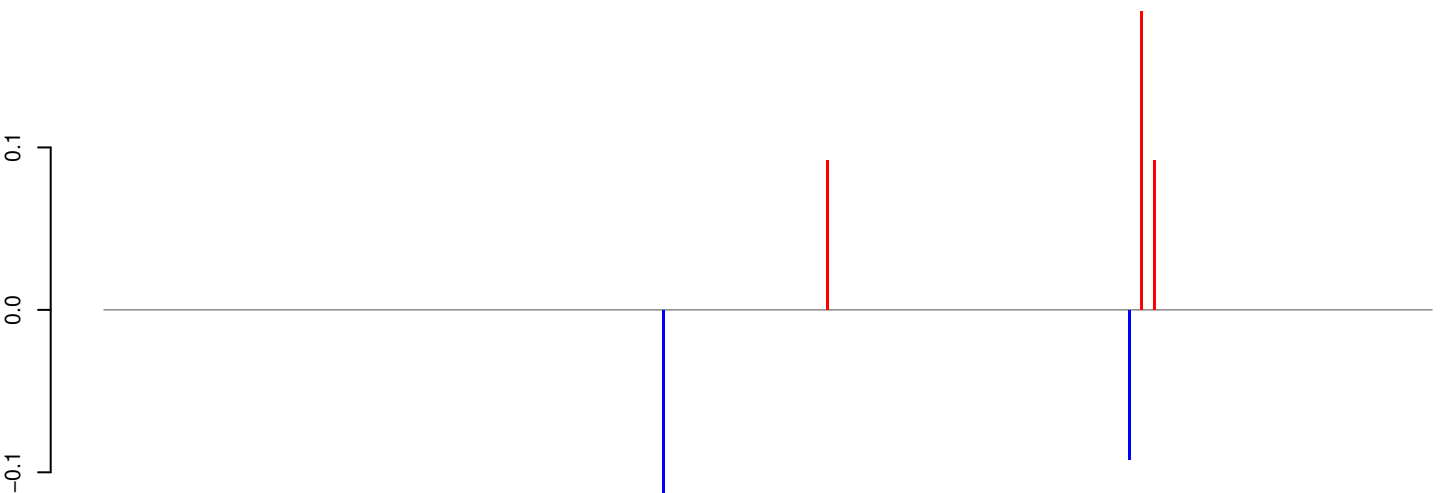
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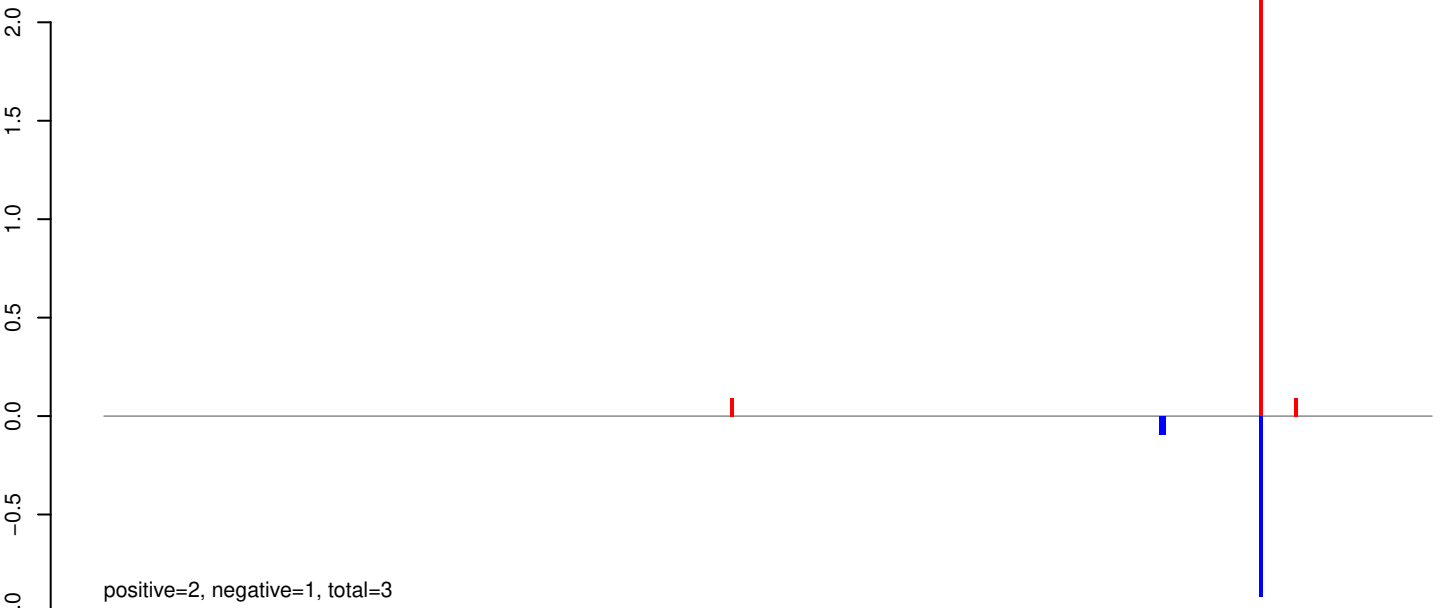
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



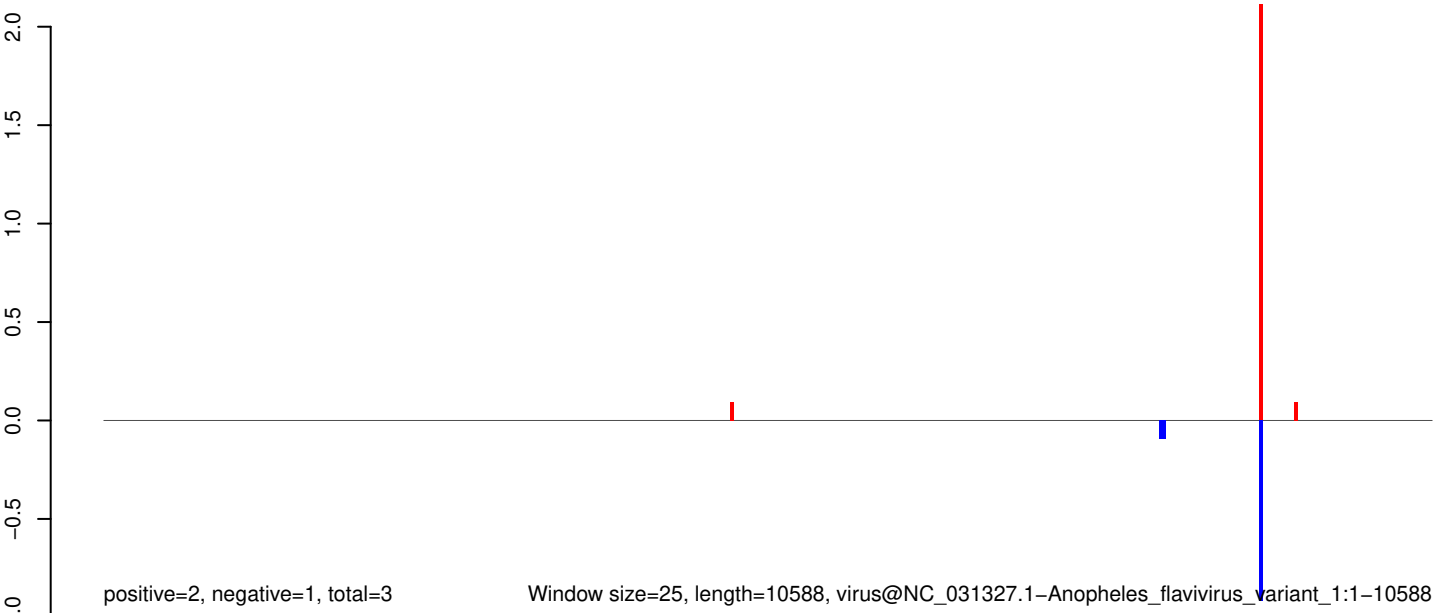
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



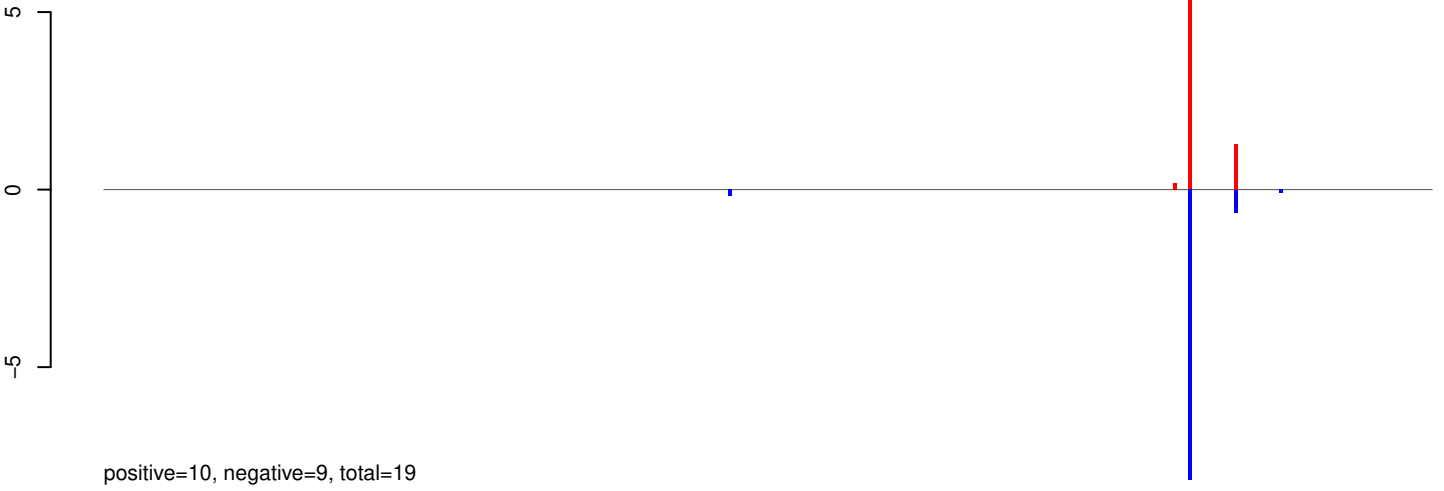
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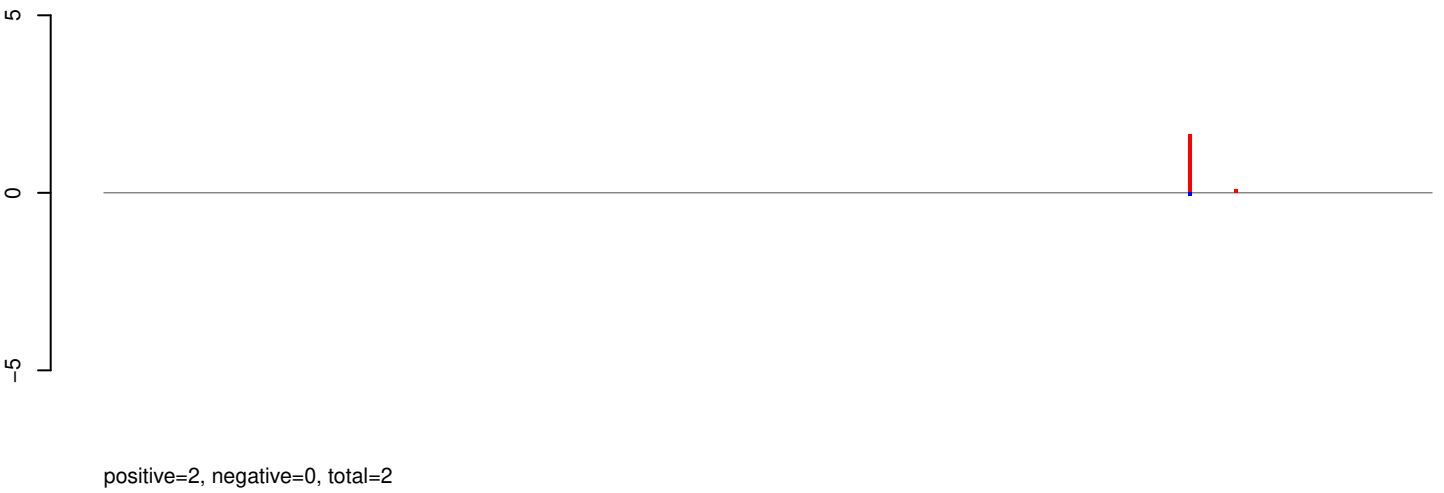
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0 2000 4000 6000 8000 10000

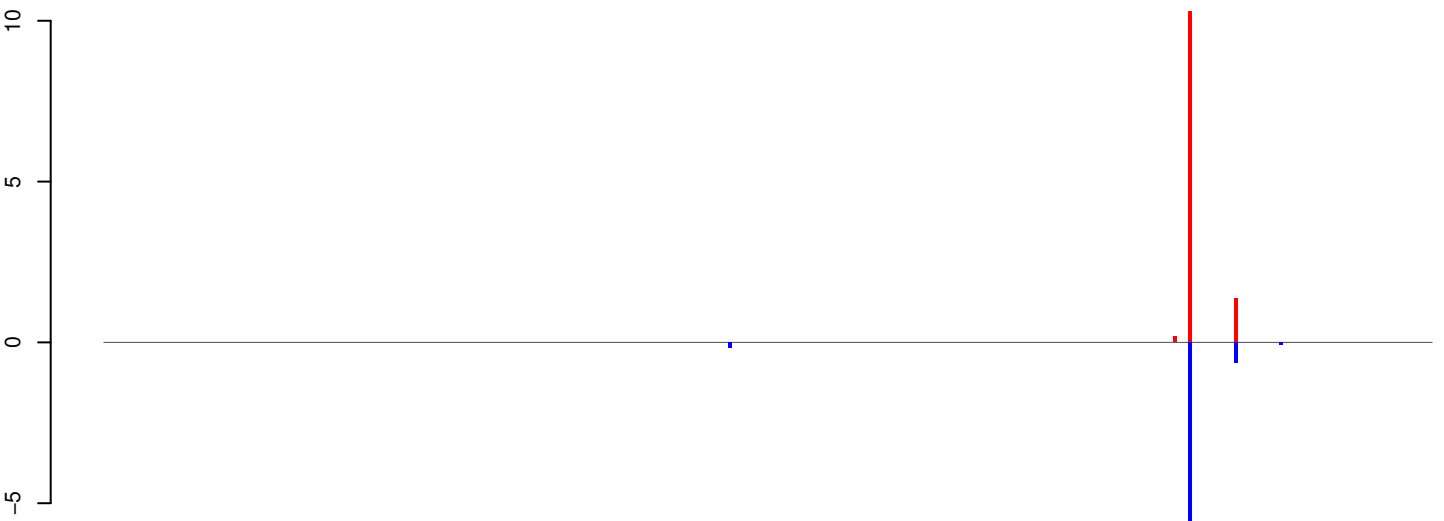
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



Window size=25, length=10893, virus@NC\_027817.1-Parramatta\_River\_virus\_isolate\_92-B115745:1-10893

0 2000 4000 6000 8000 10000

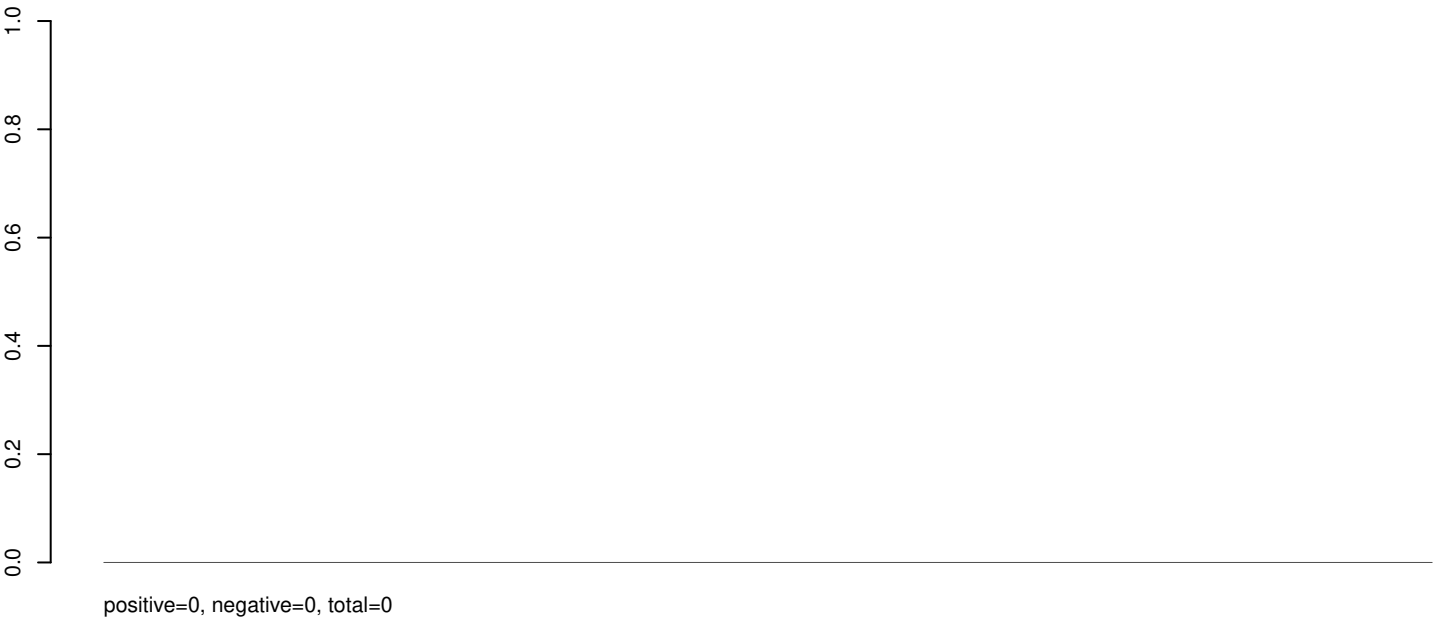


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



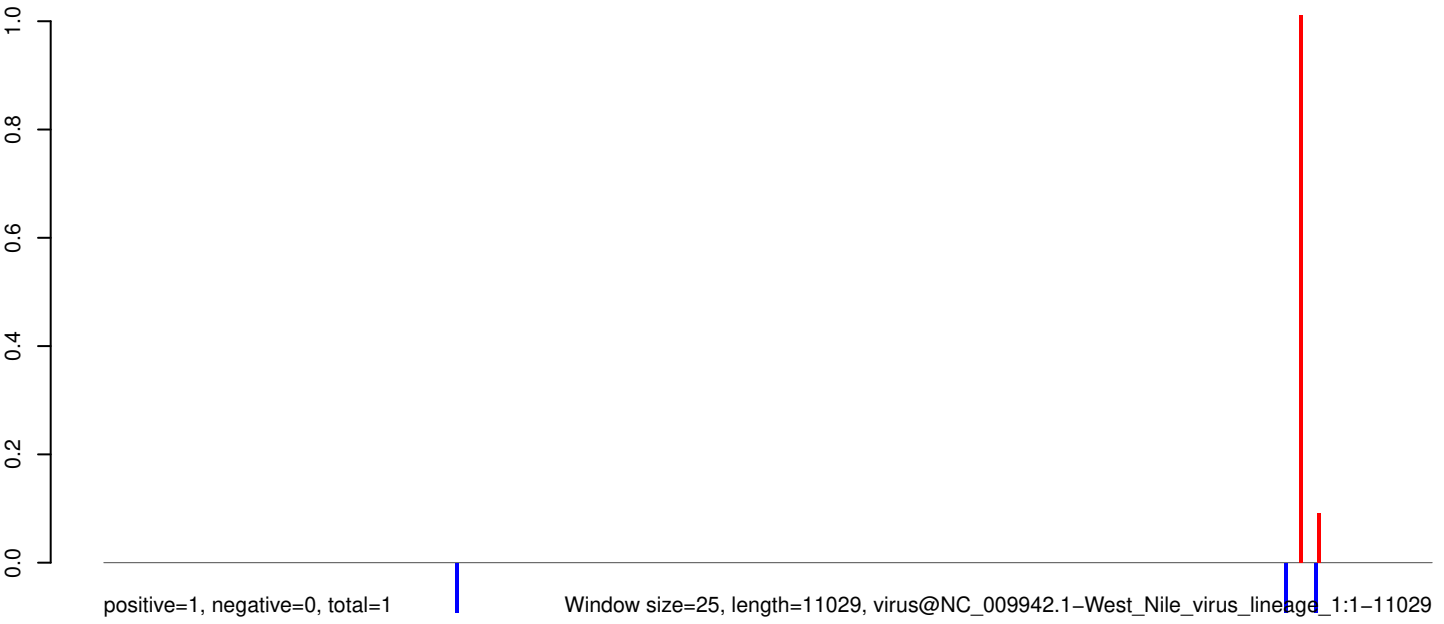
positive=1, negative=0, total=1

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



positive=0, negative=0, total=0

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

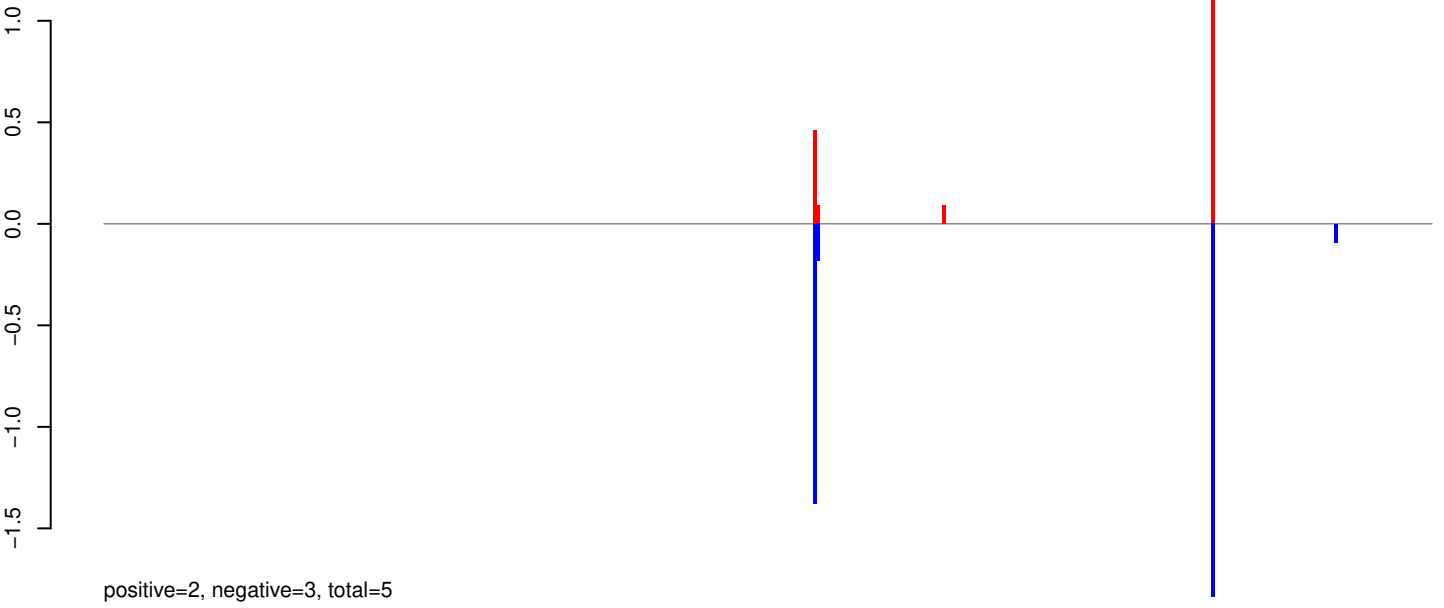


positive=1, negative=0, total=1

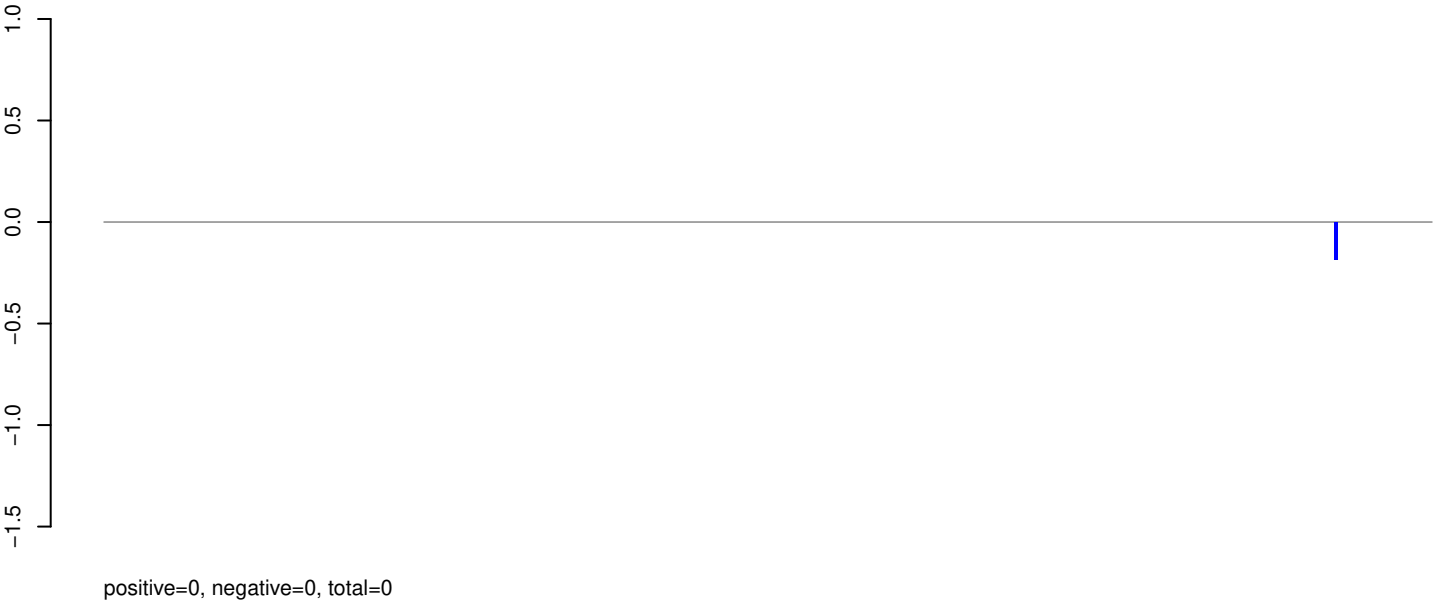
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0 2000 4000 6000 8000 10000

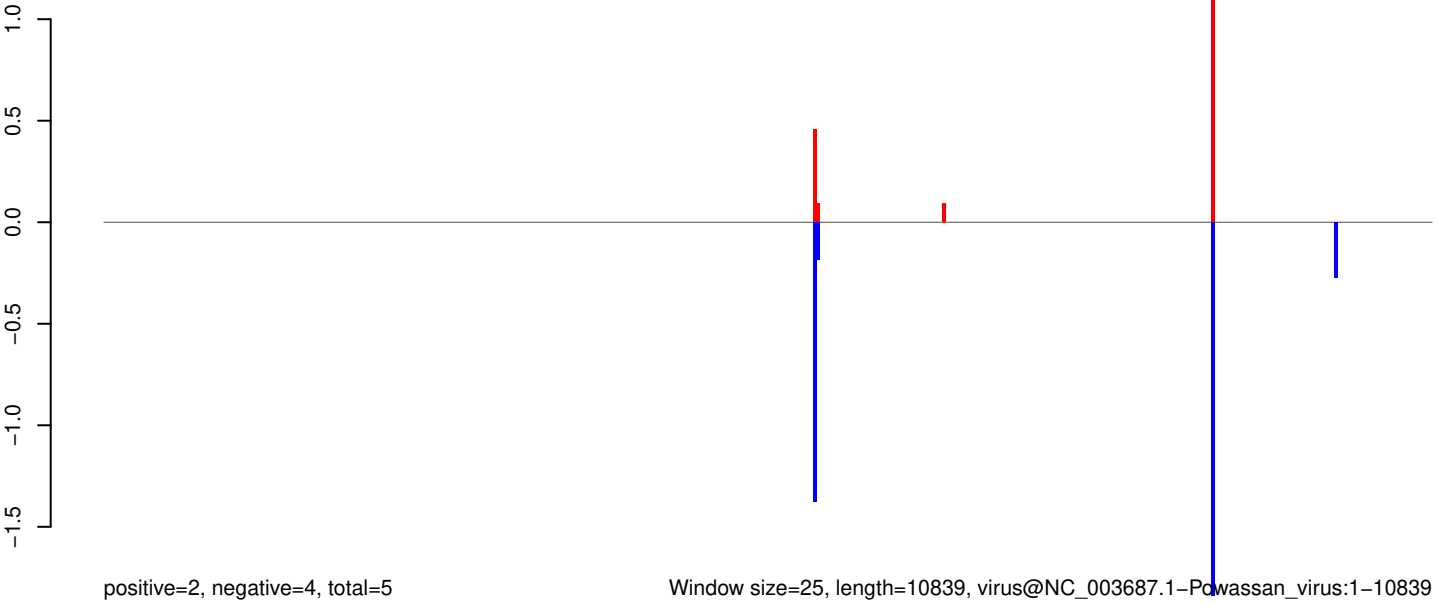
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



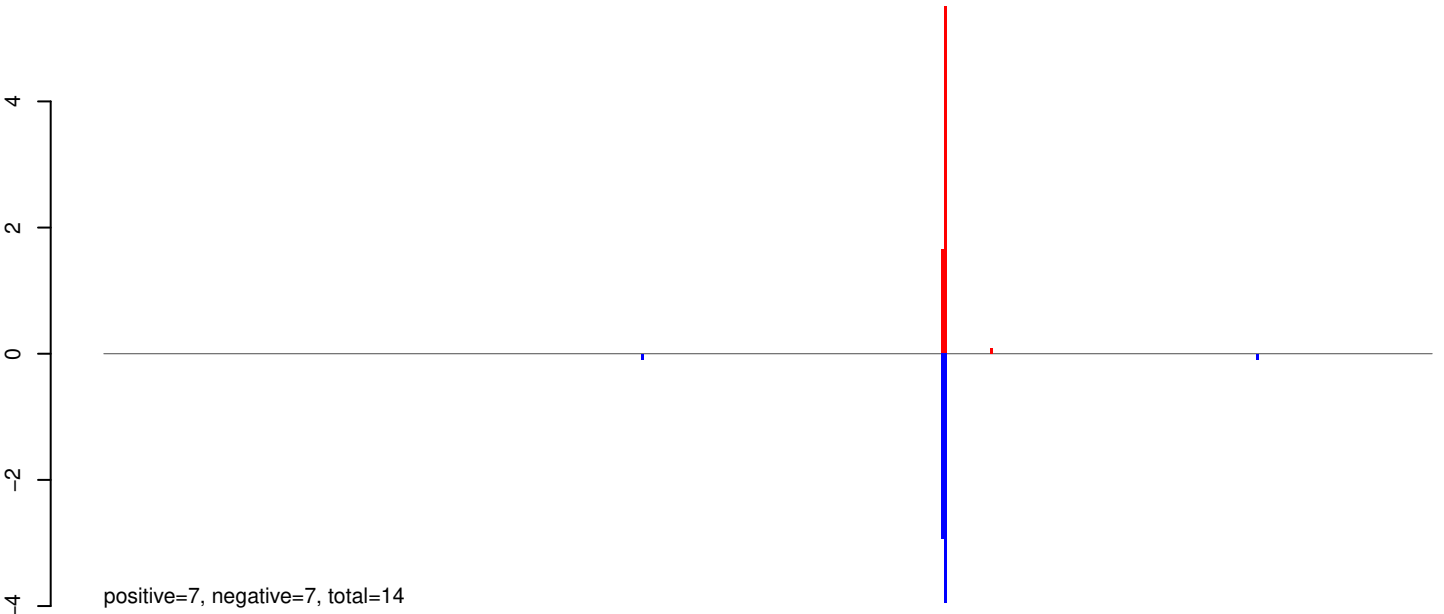
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



Window size=25, length=10839, virus@NC\_003687.1-Powassan\_virus:1-10839

0 2000 4000 6000 8000 10000

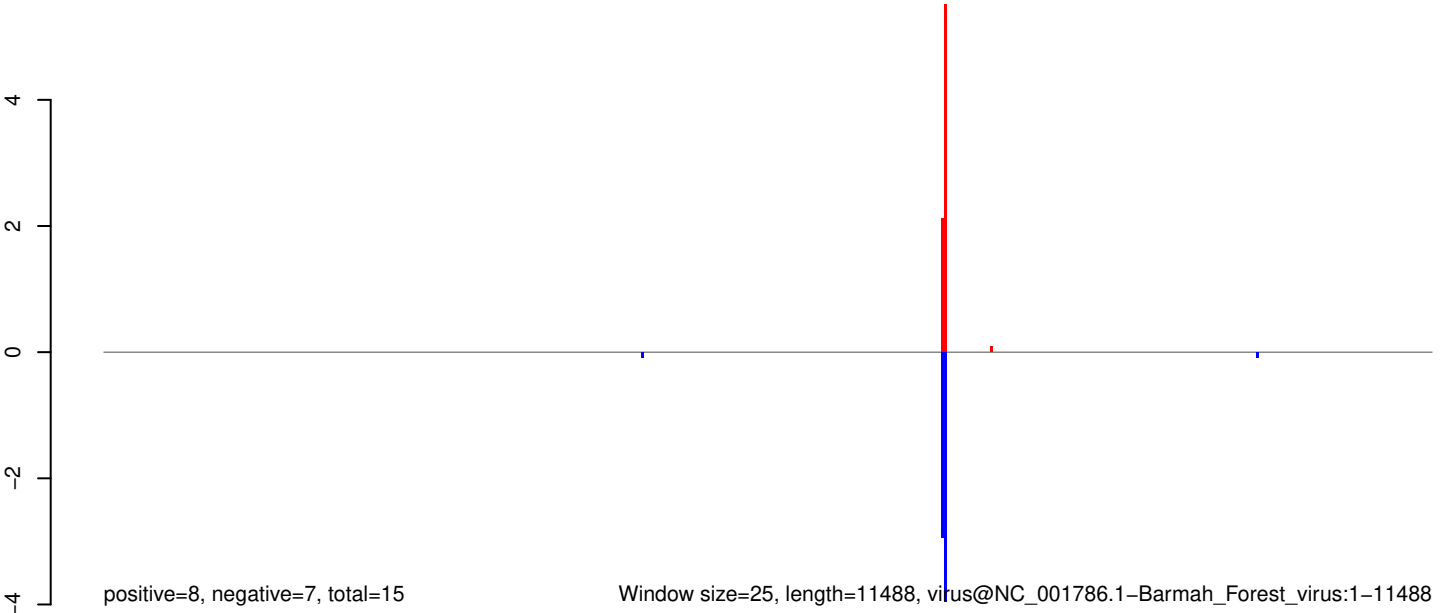
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



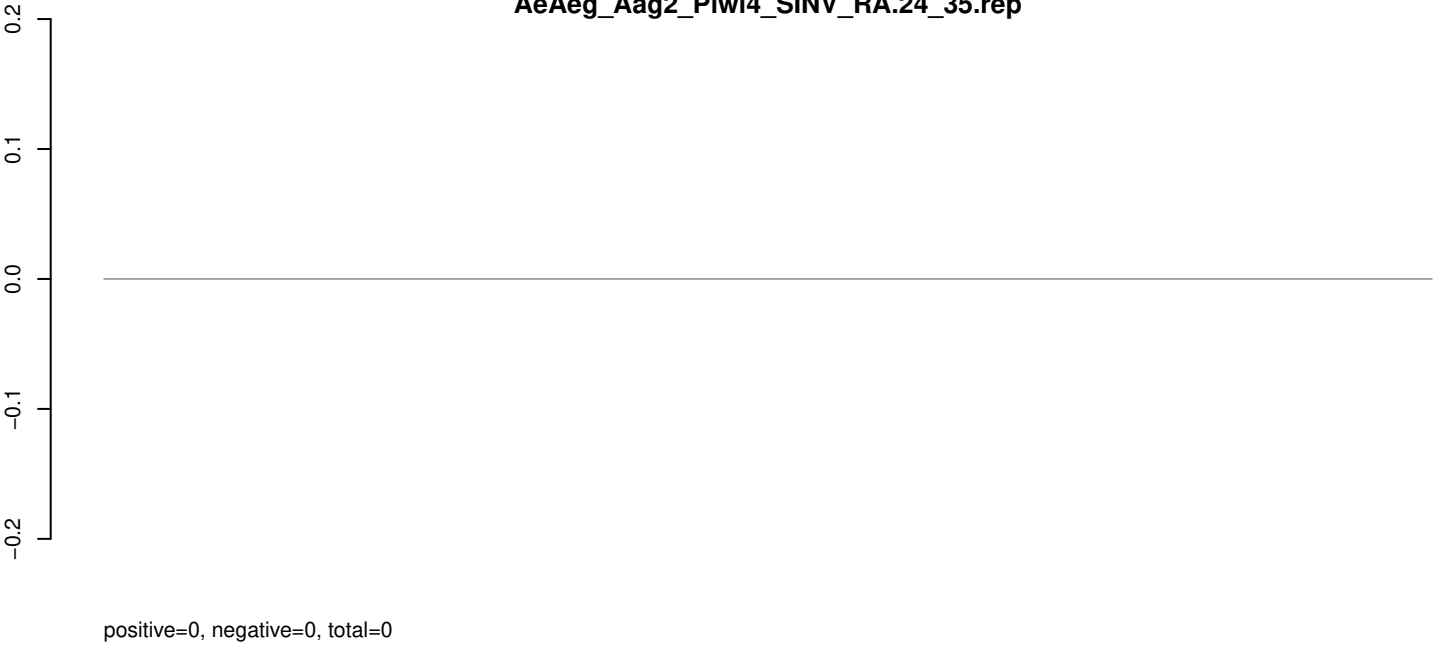
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0 2000 4000 6000 8000 10000

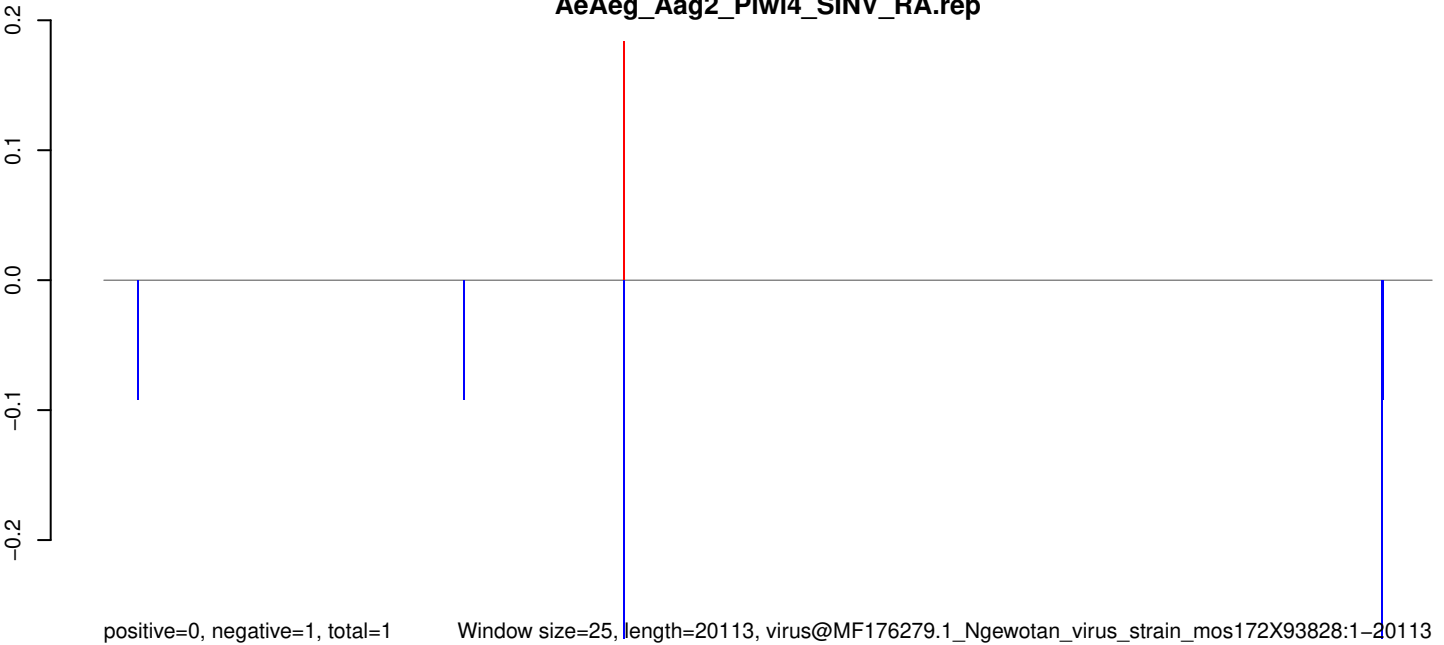
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



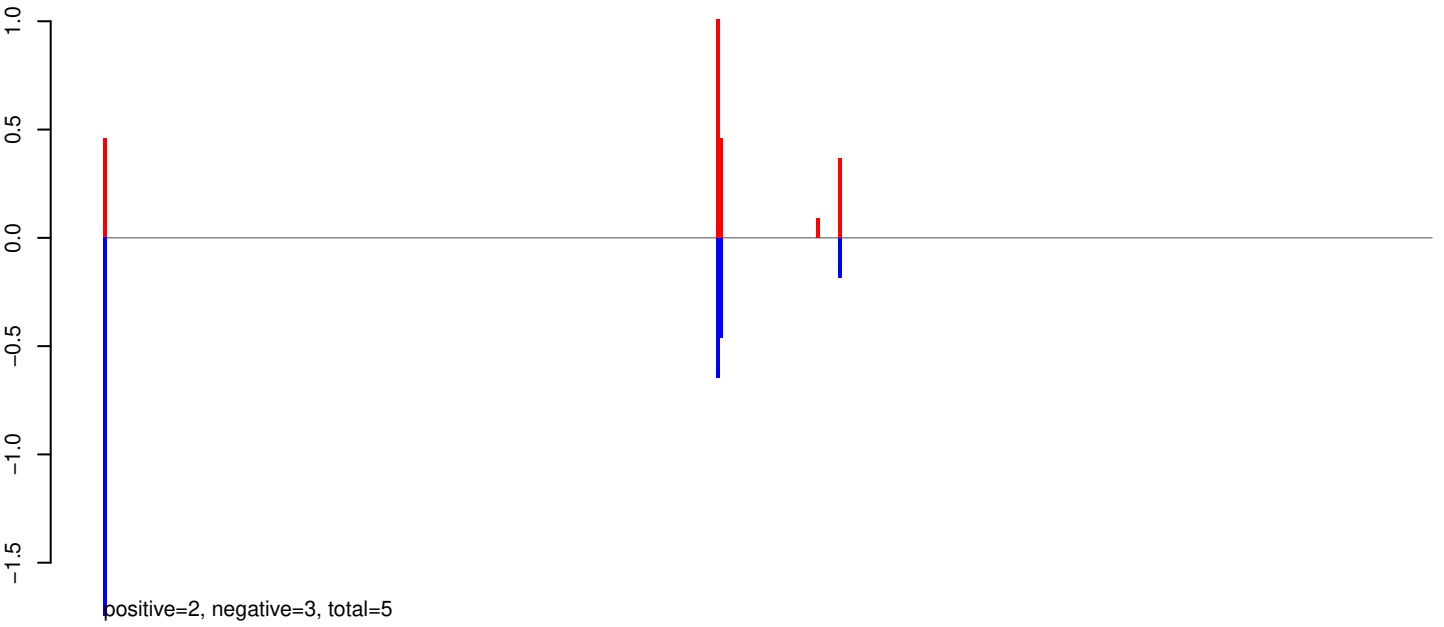
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



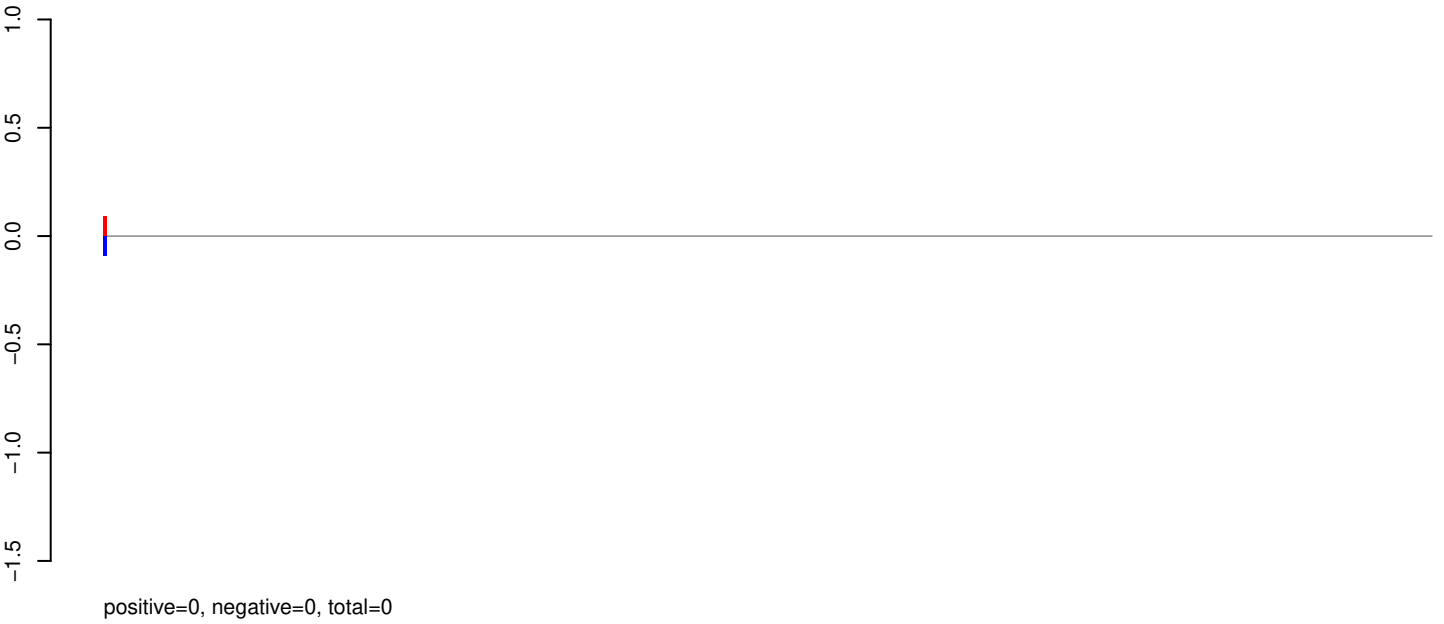
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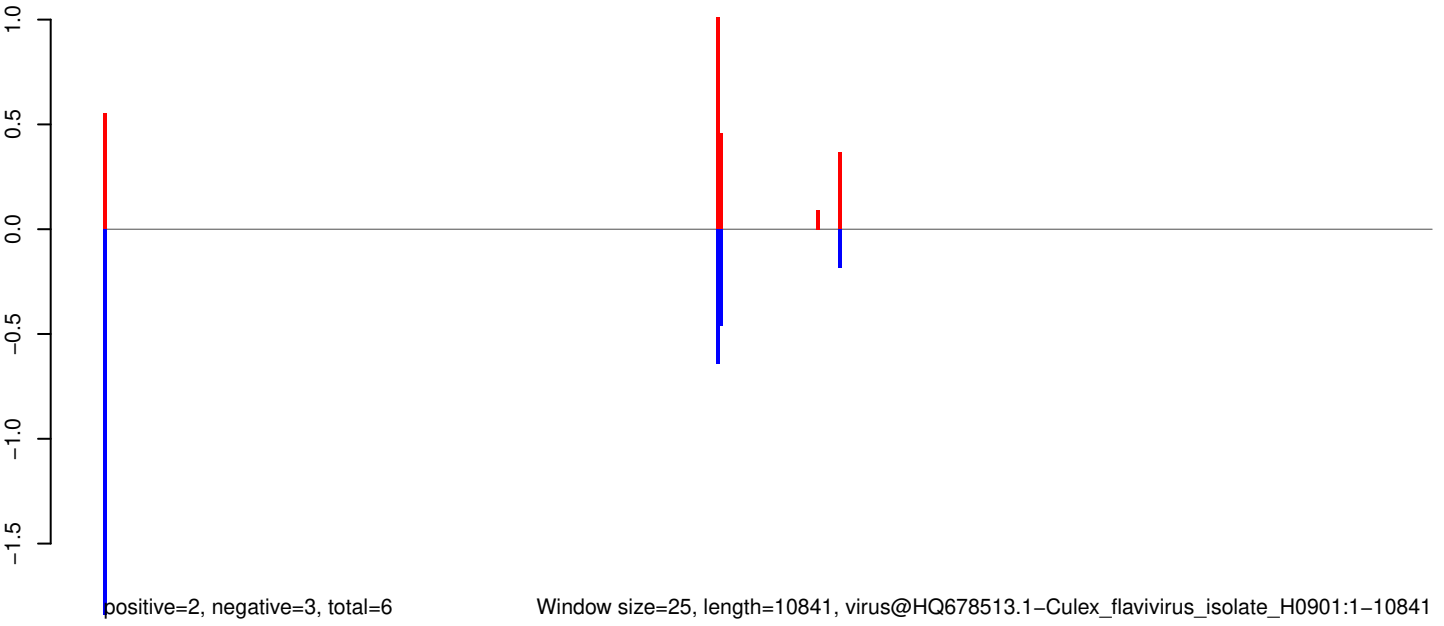
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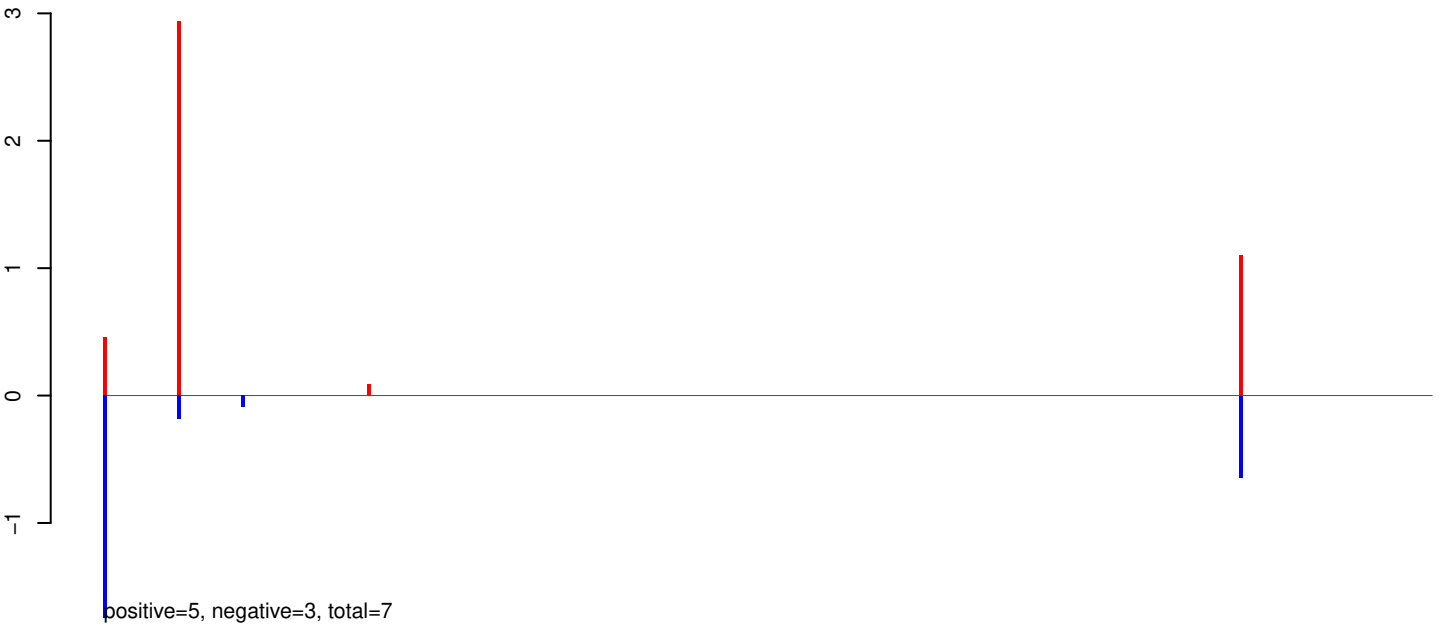
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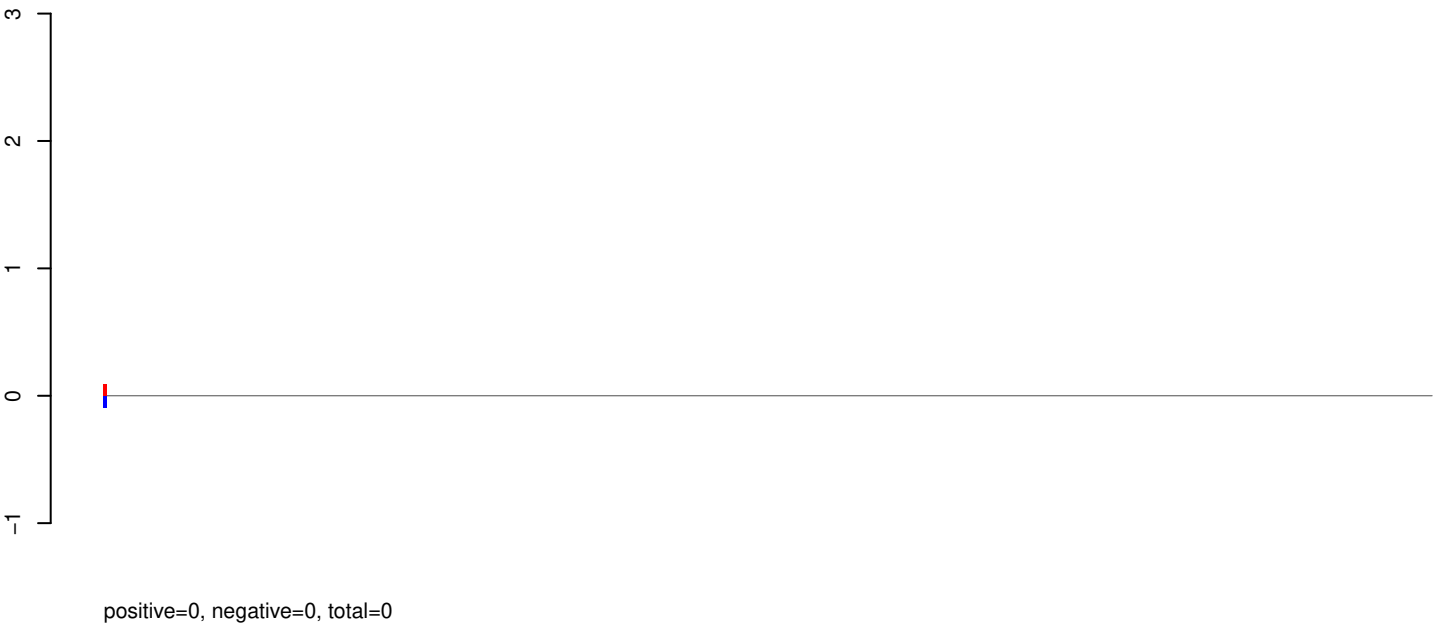
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



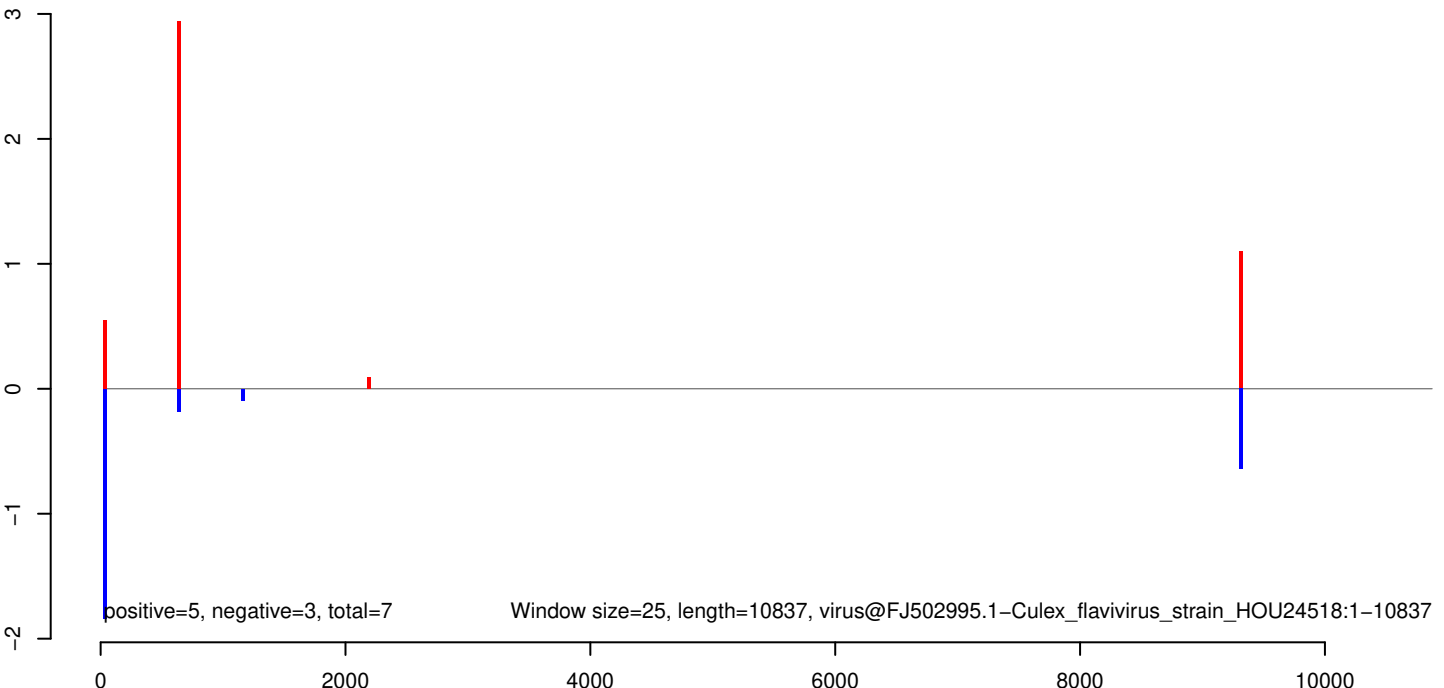
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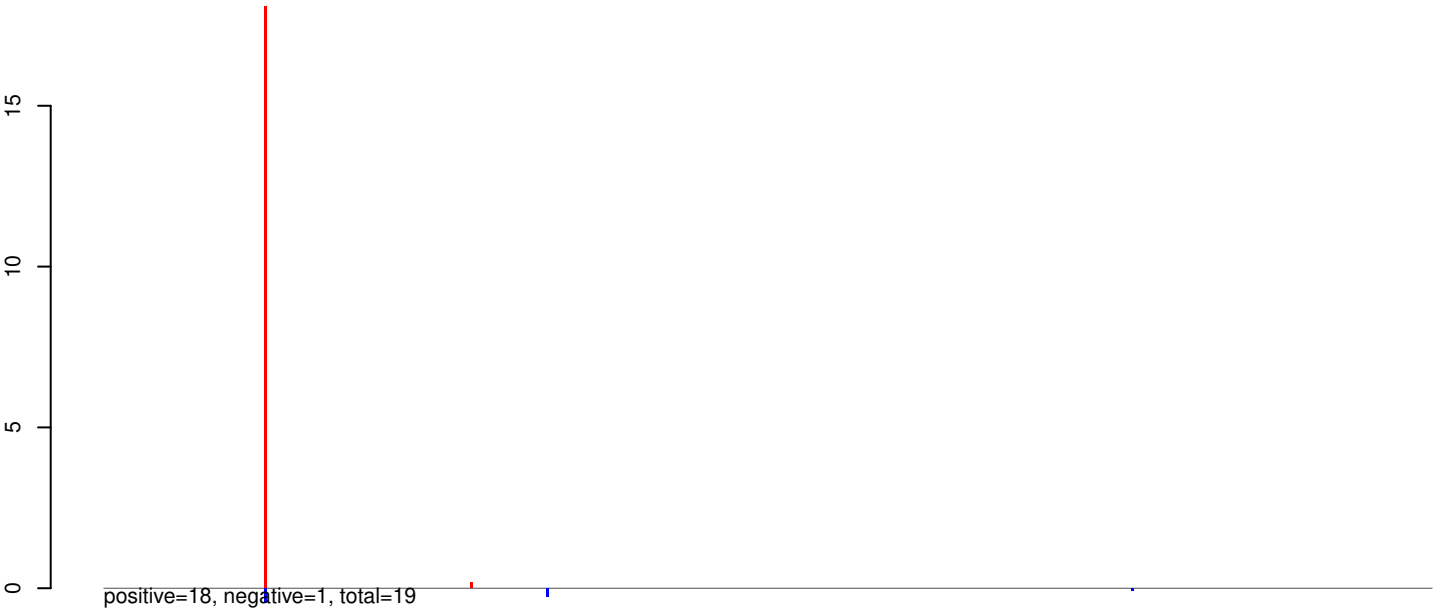
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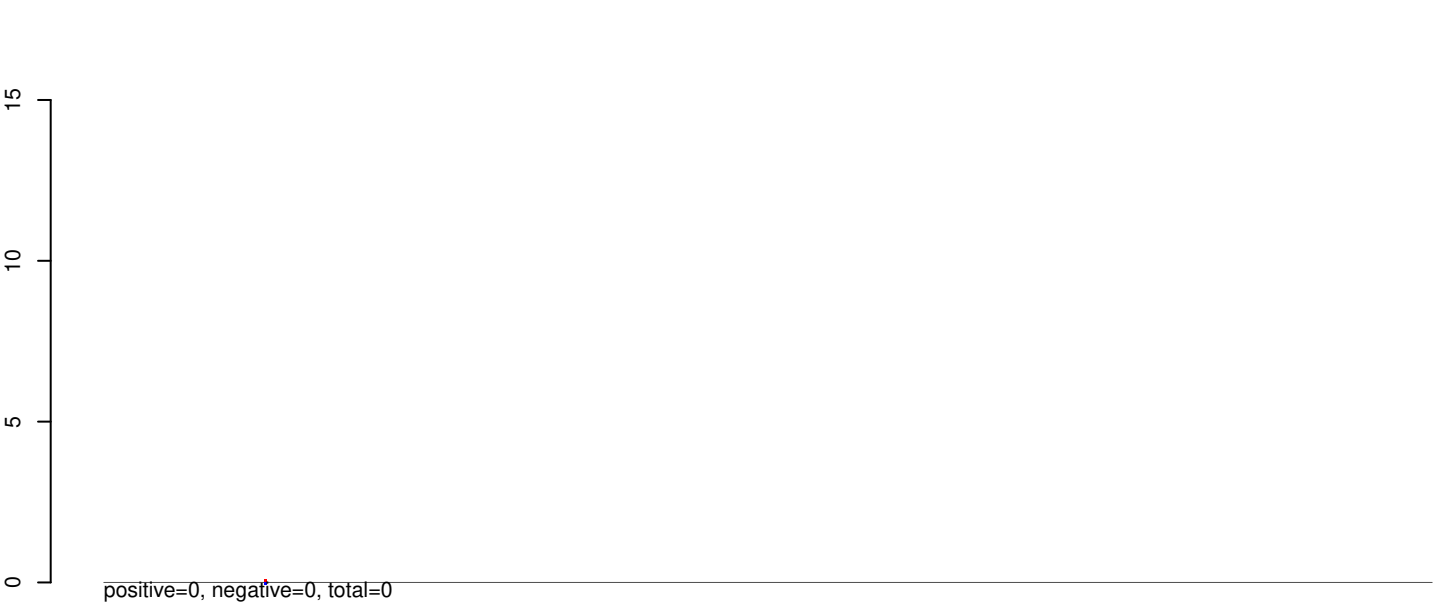
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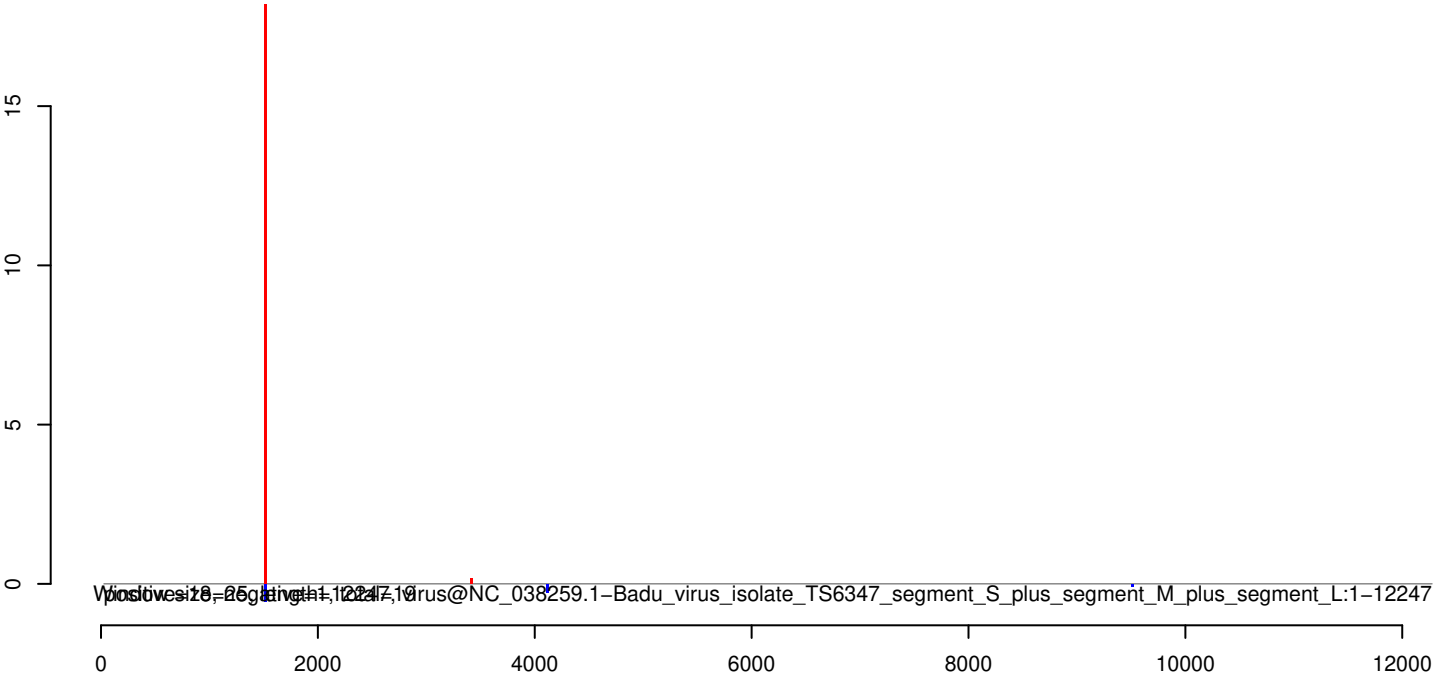
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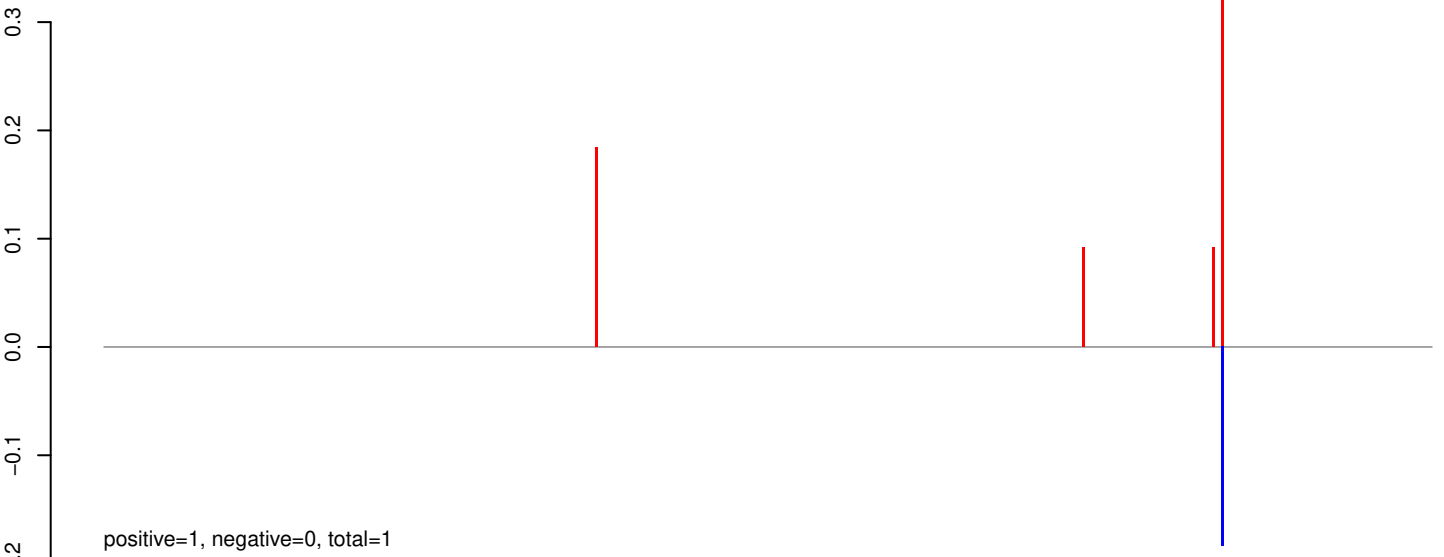
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



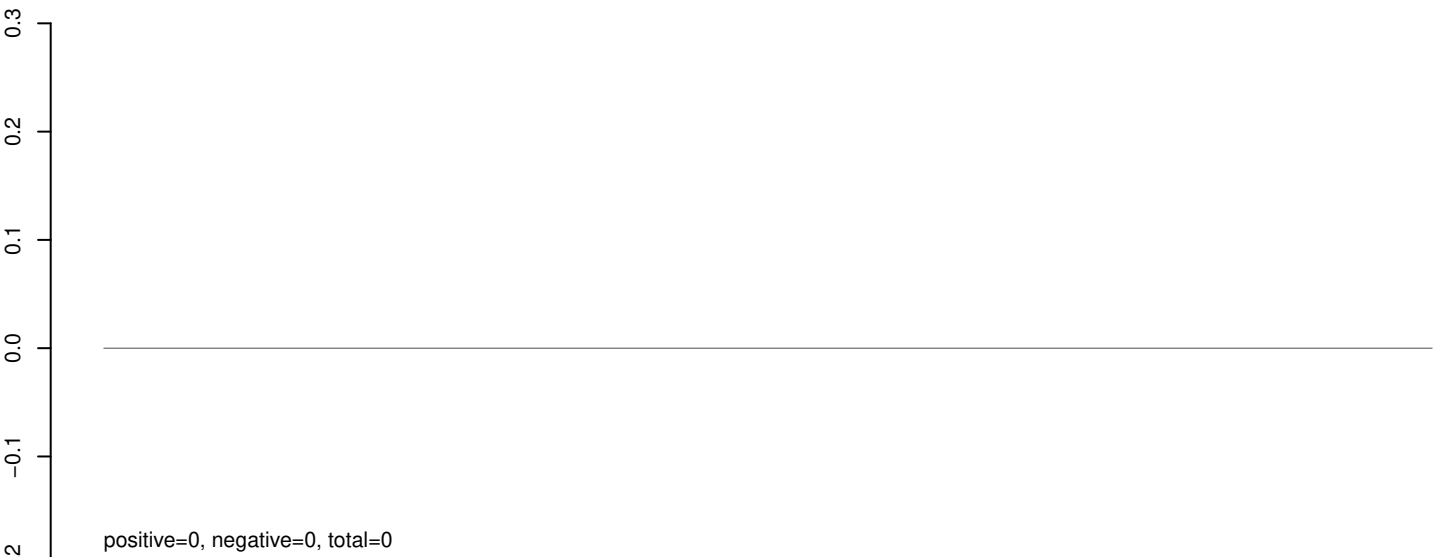
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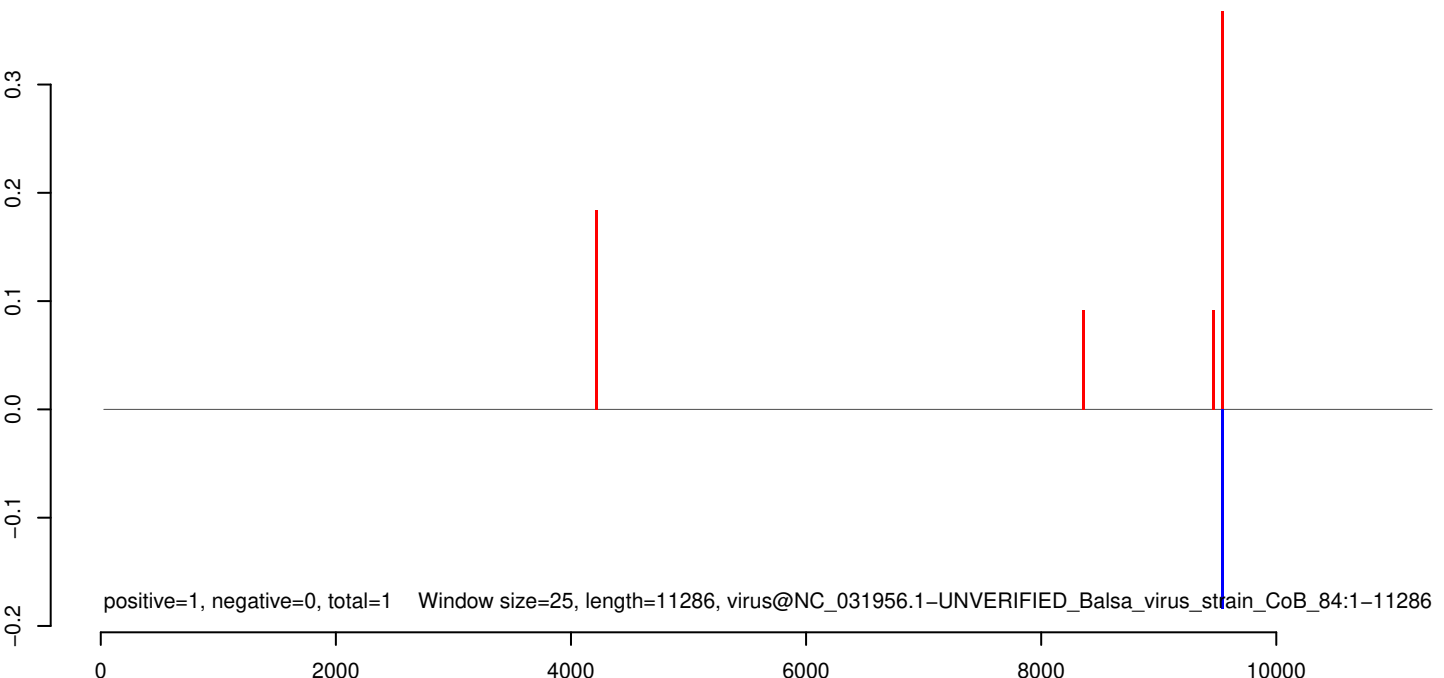
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

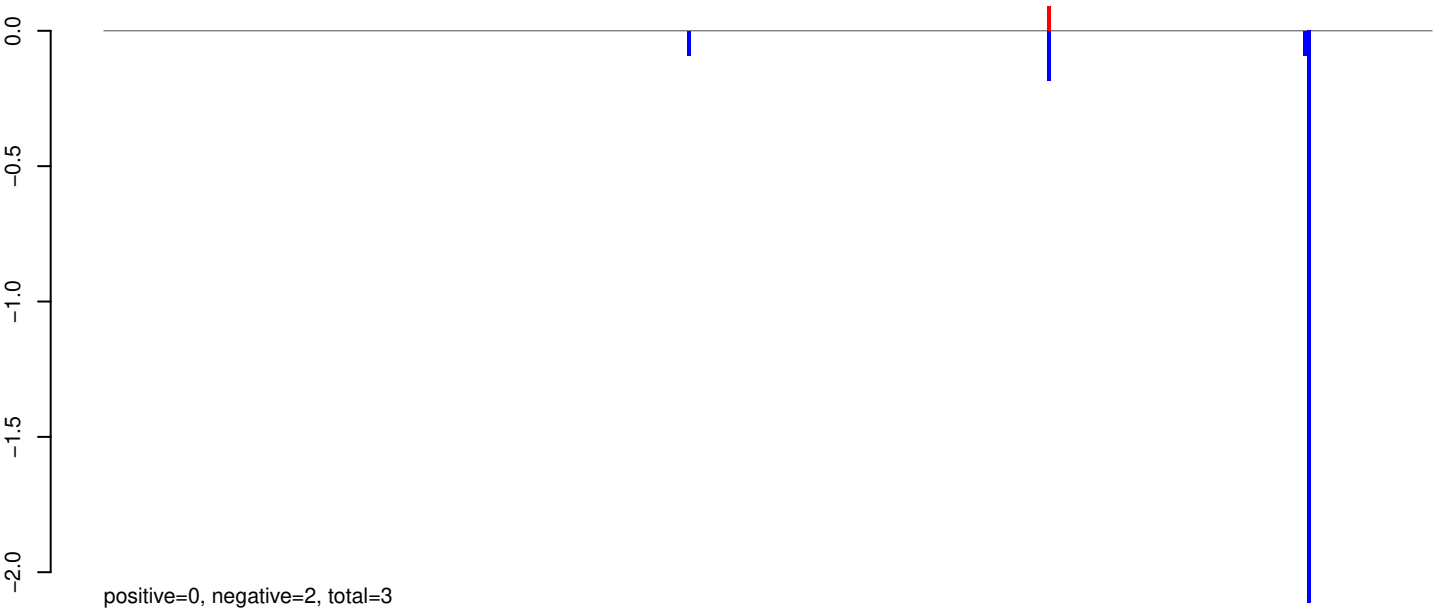


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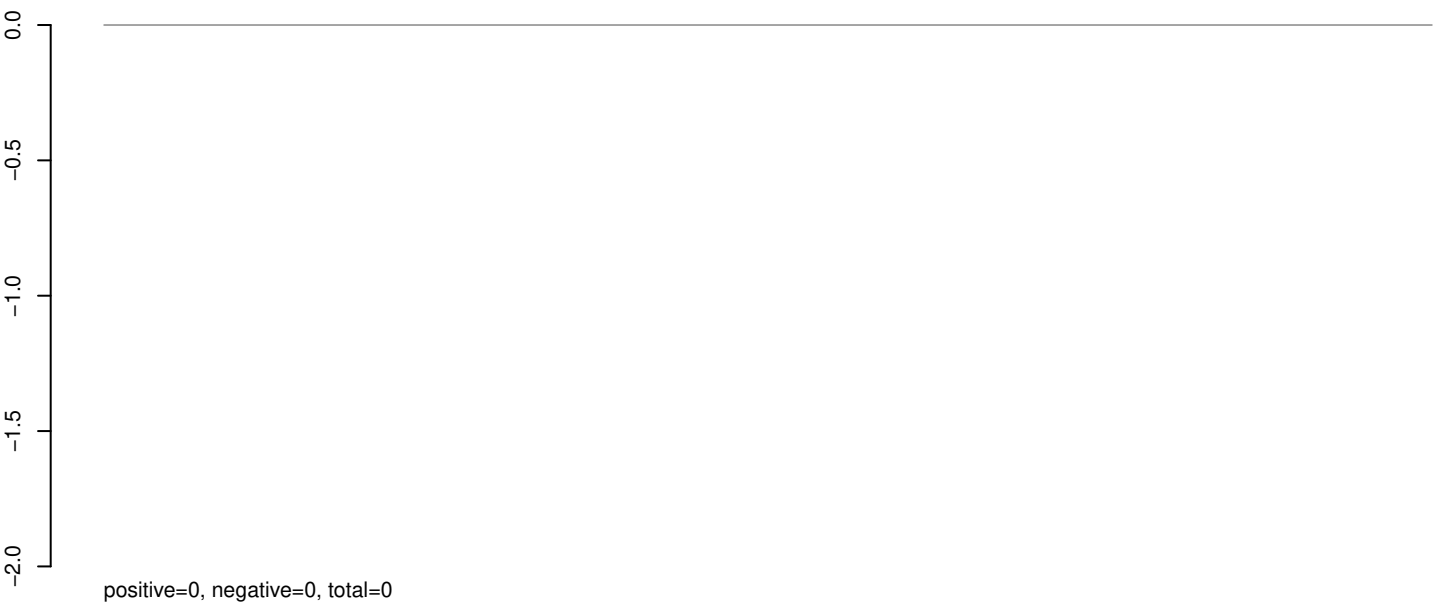




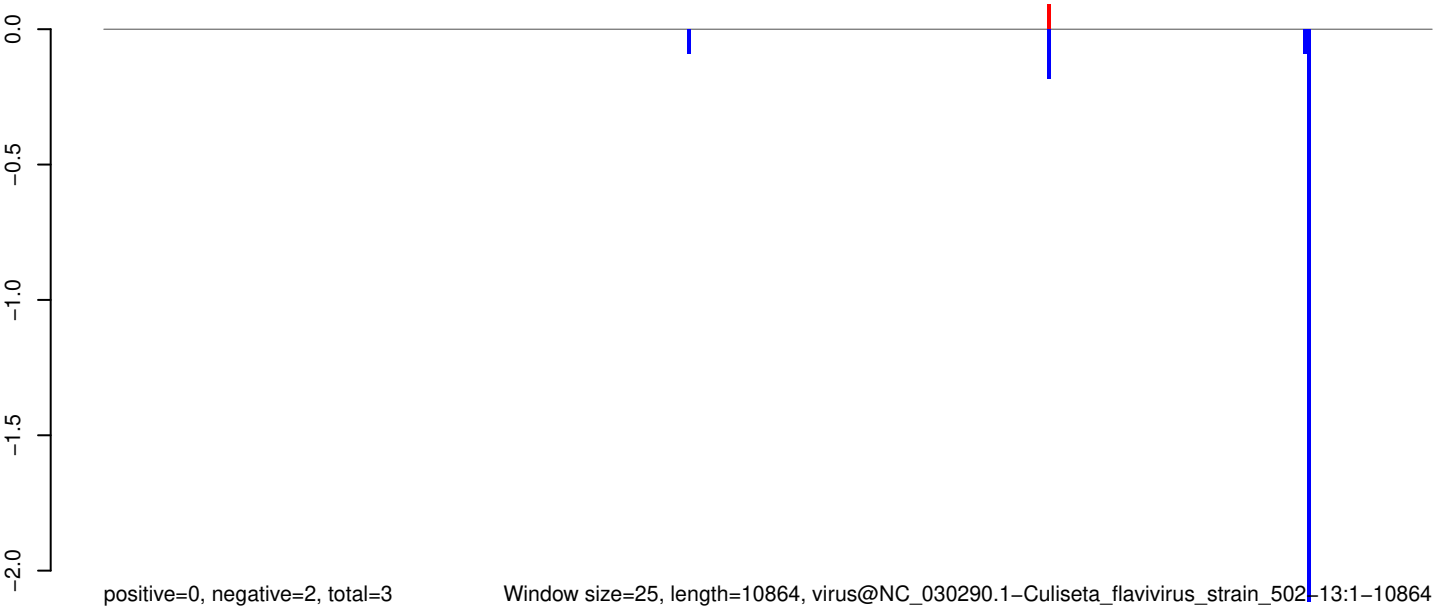
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



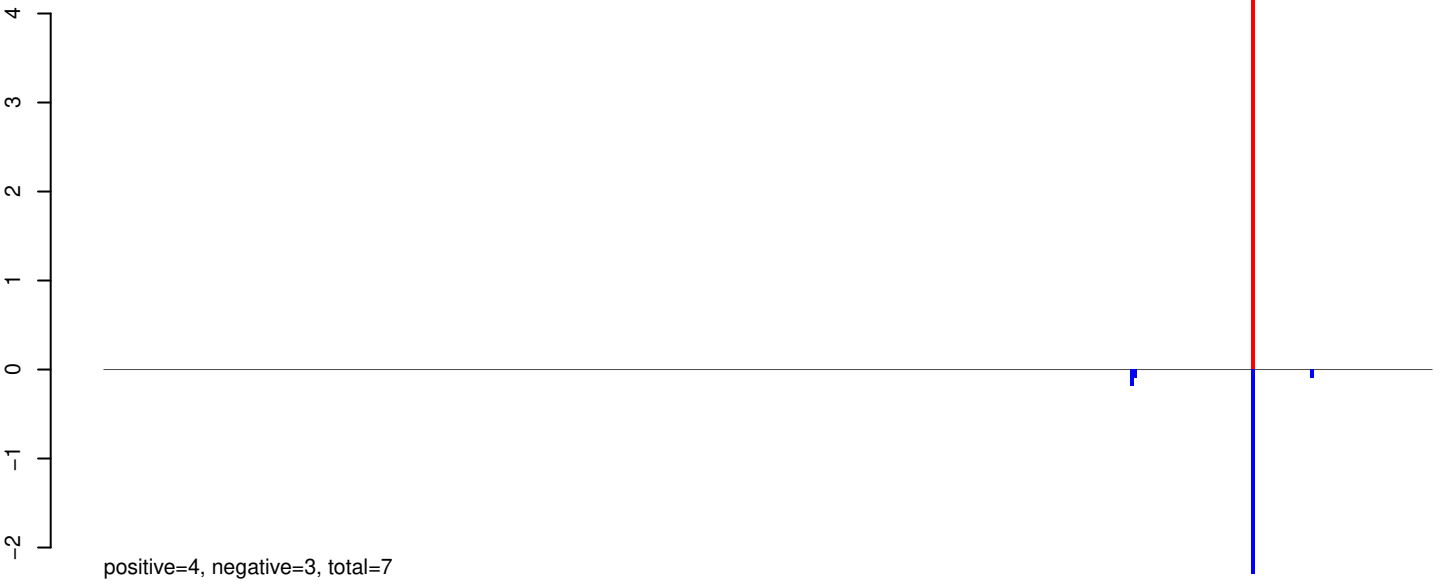
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



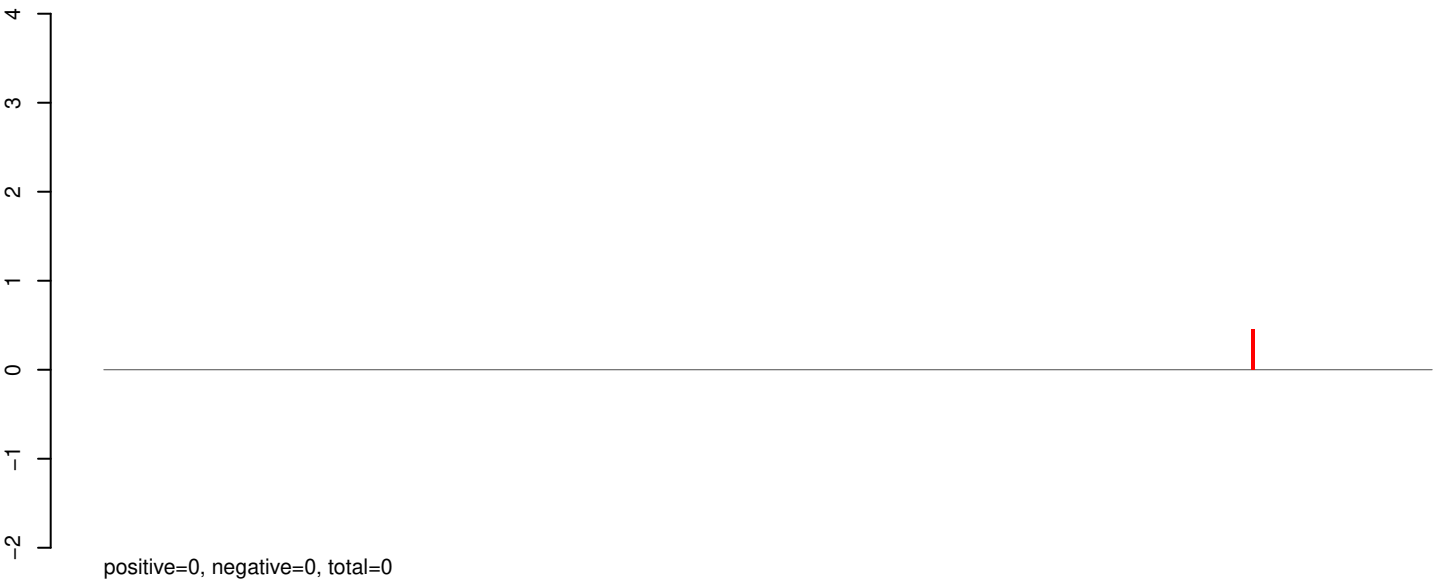
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



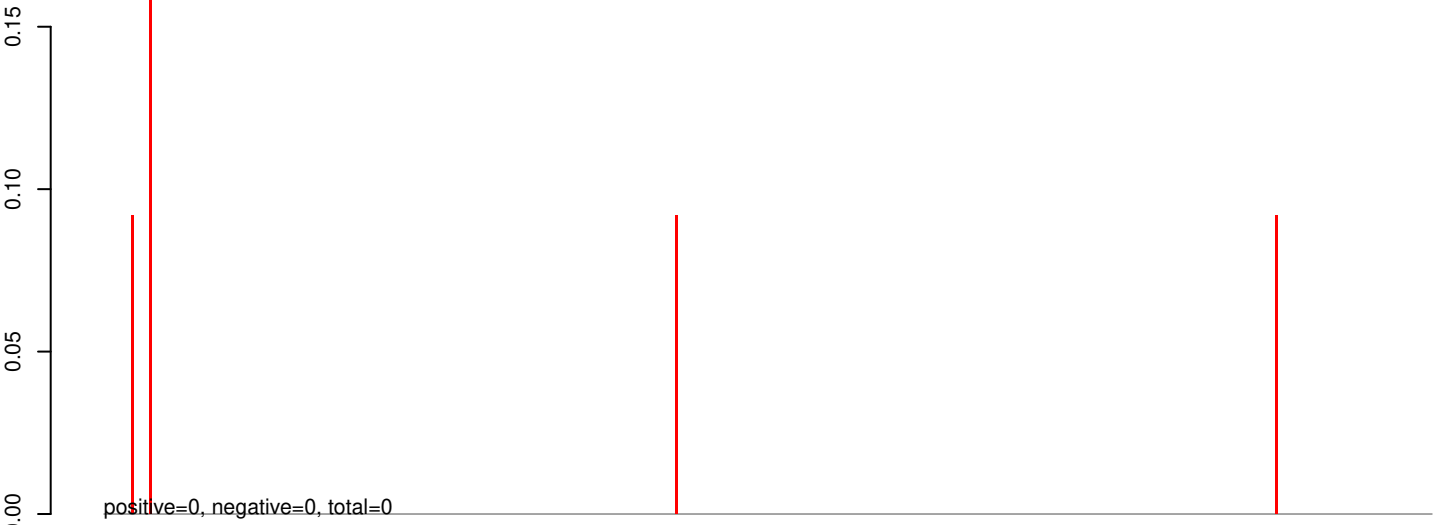
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



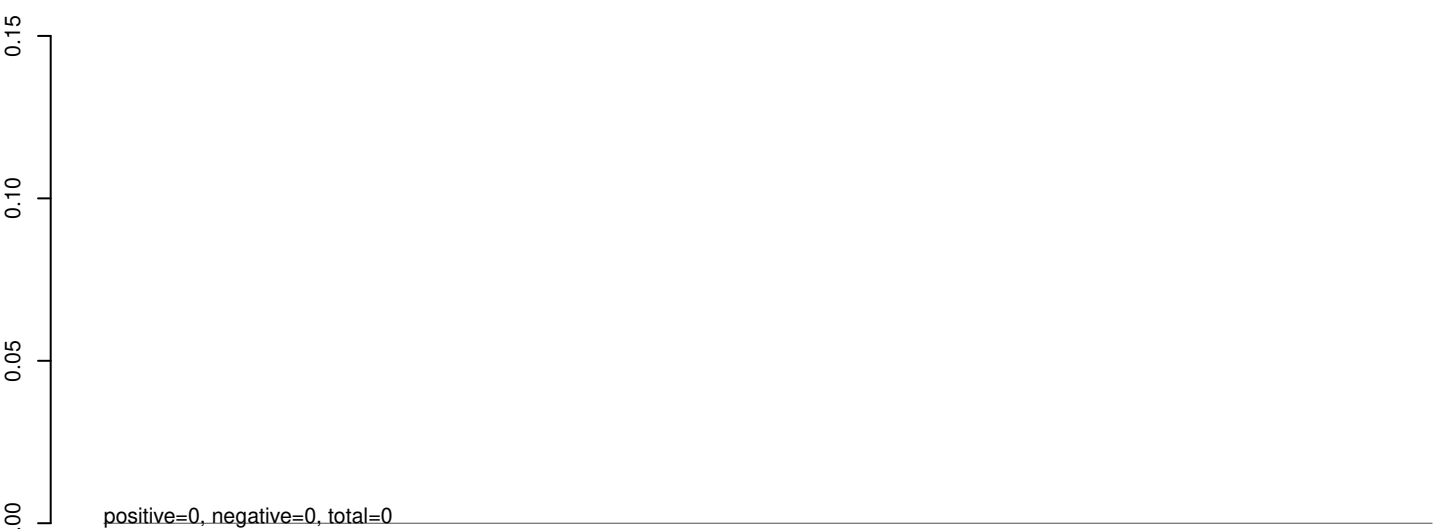
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0 2000 4000 6000 8000 10000

AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep



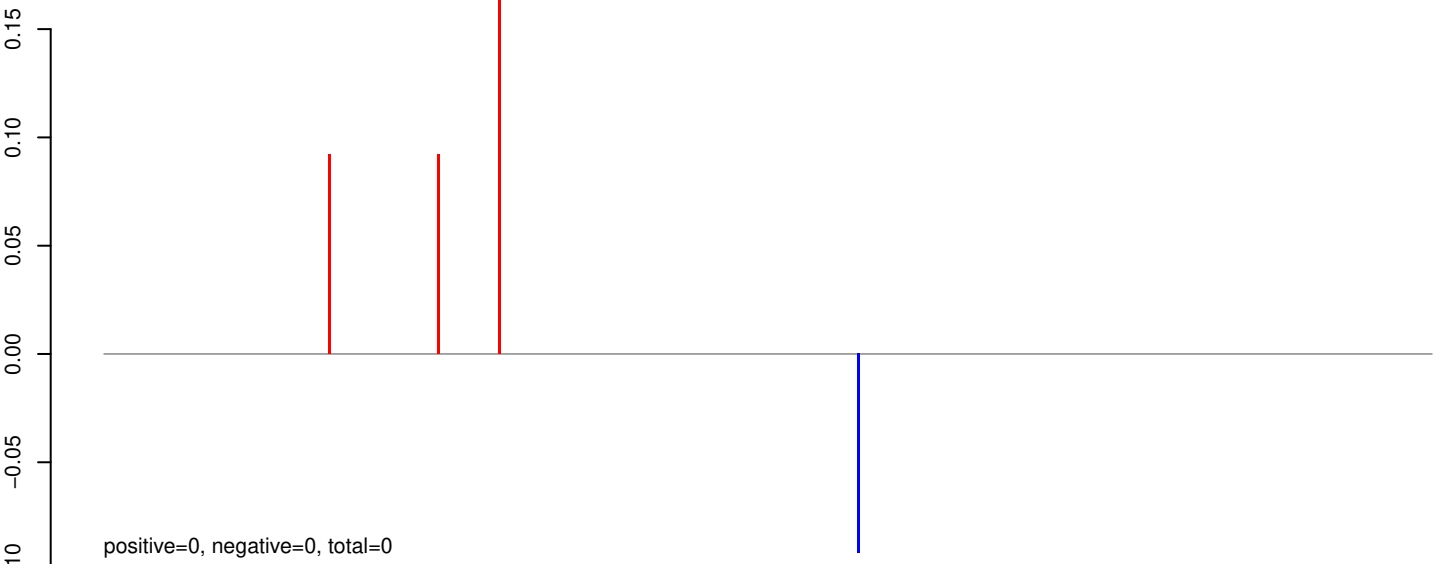
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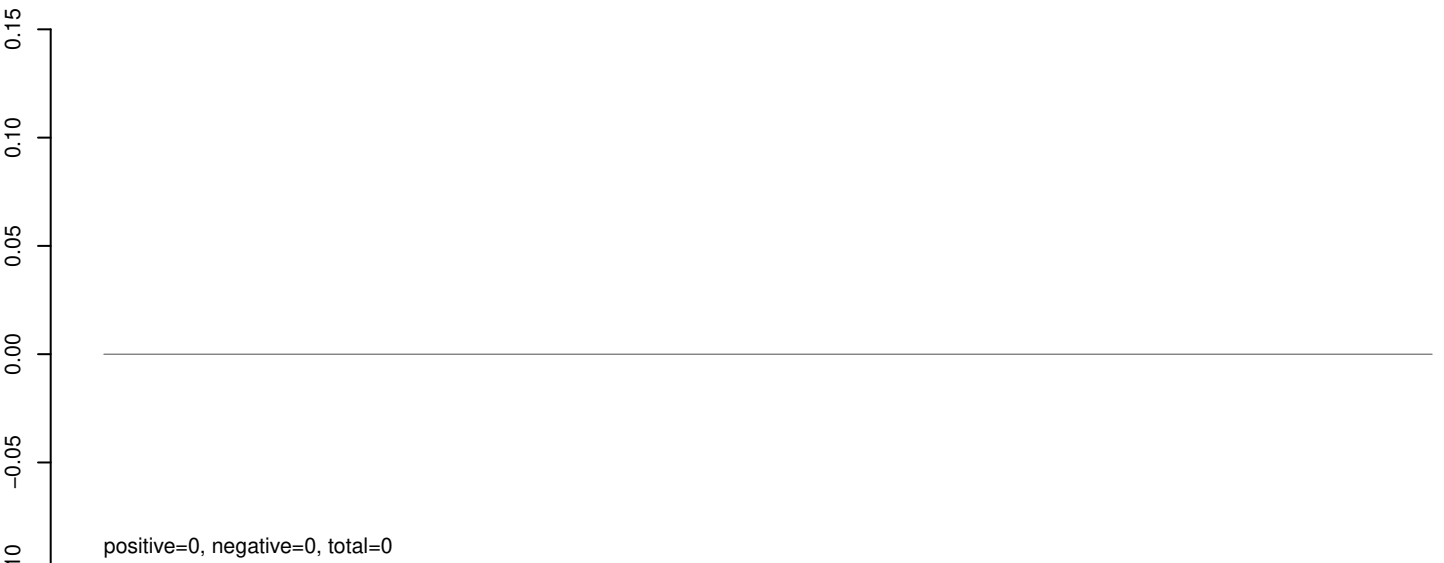
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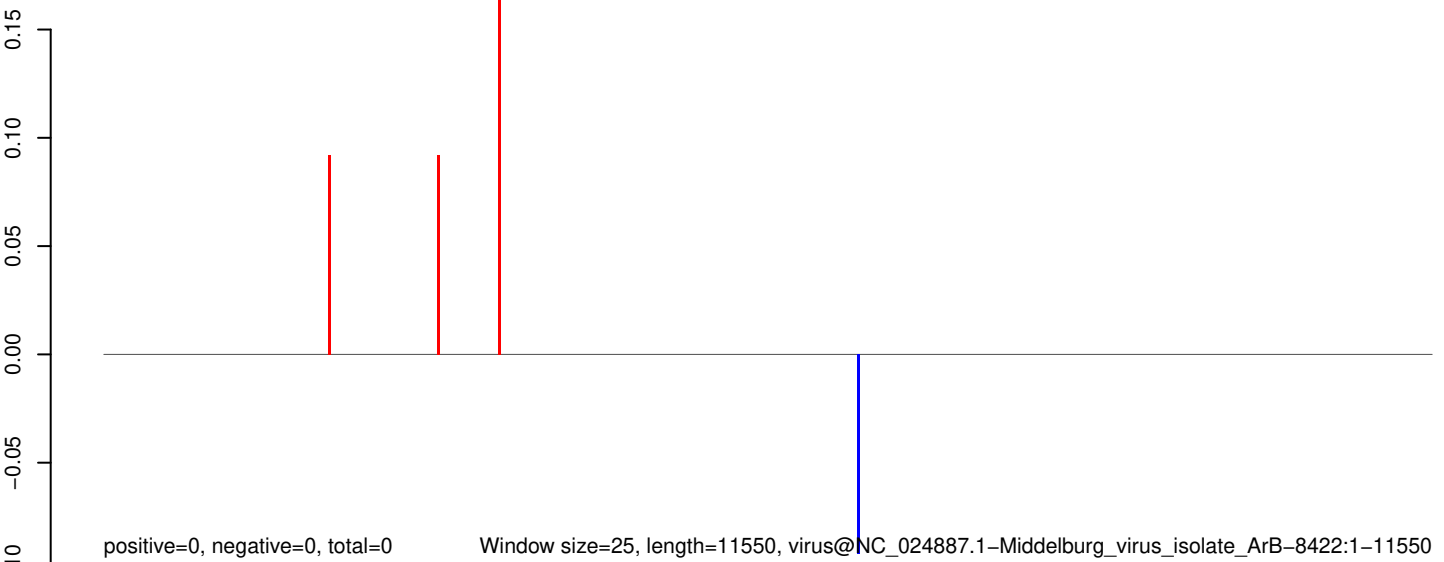
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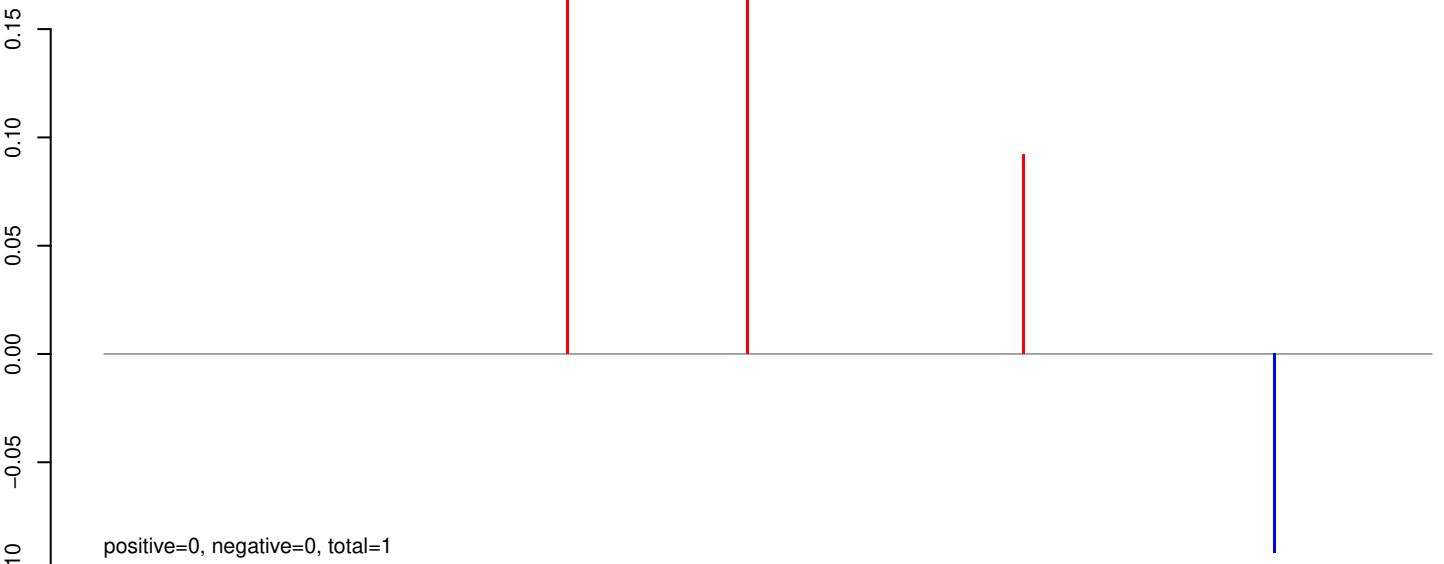
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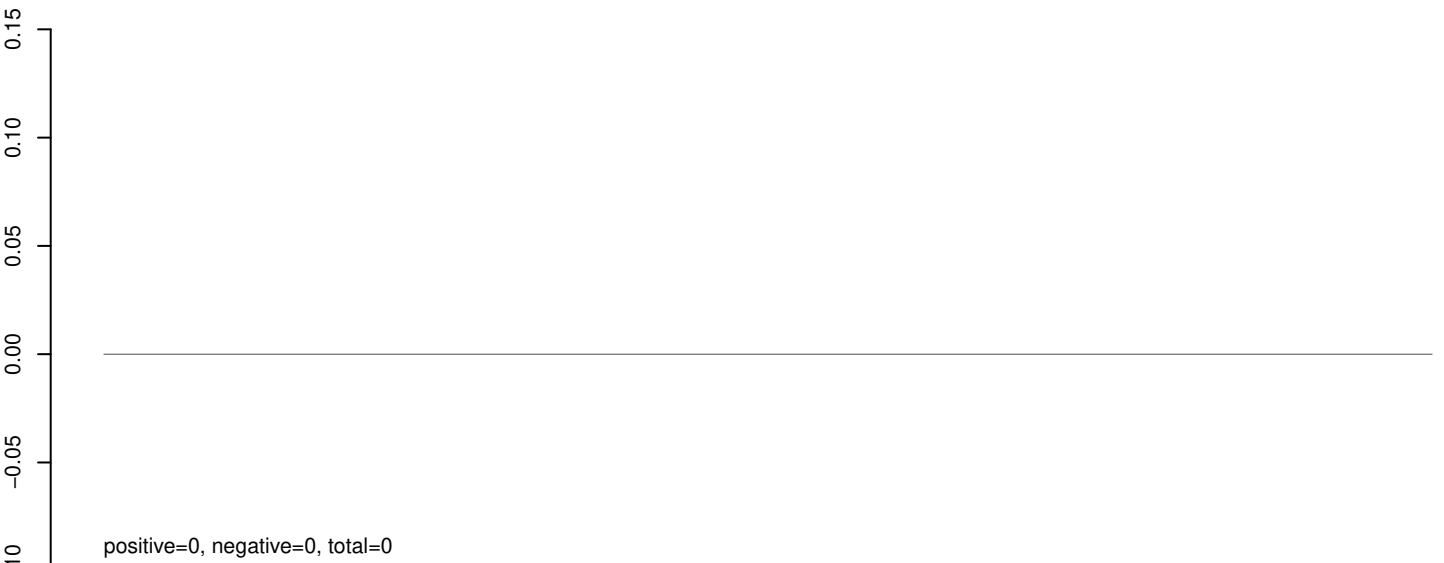
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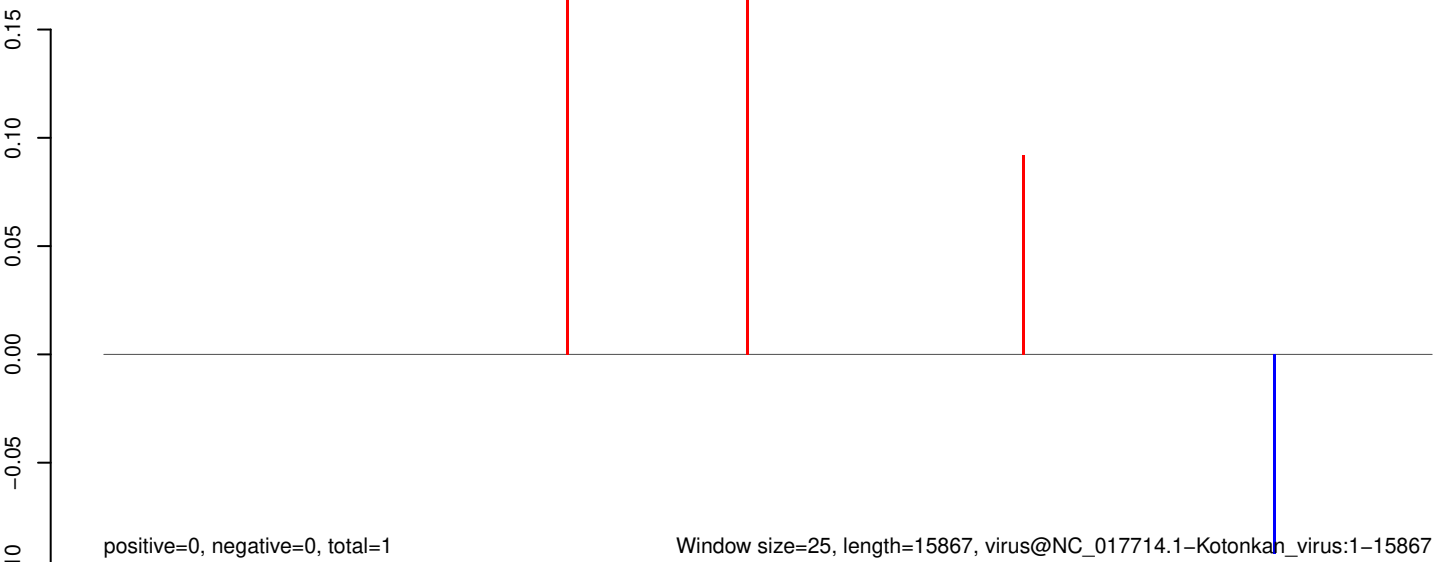
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



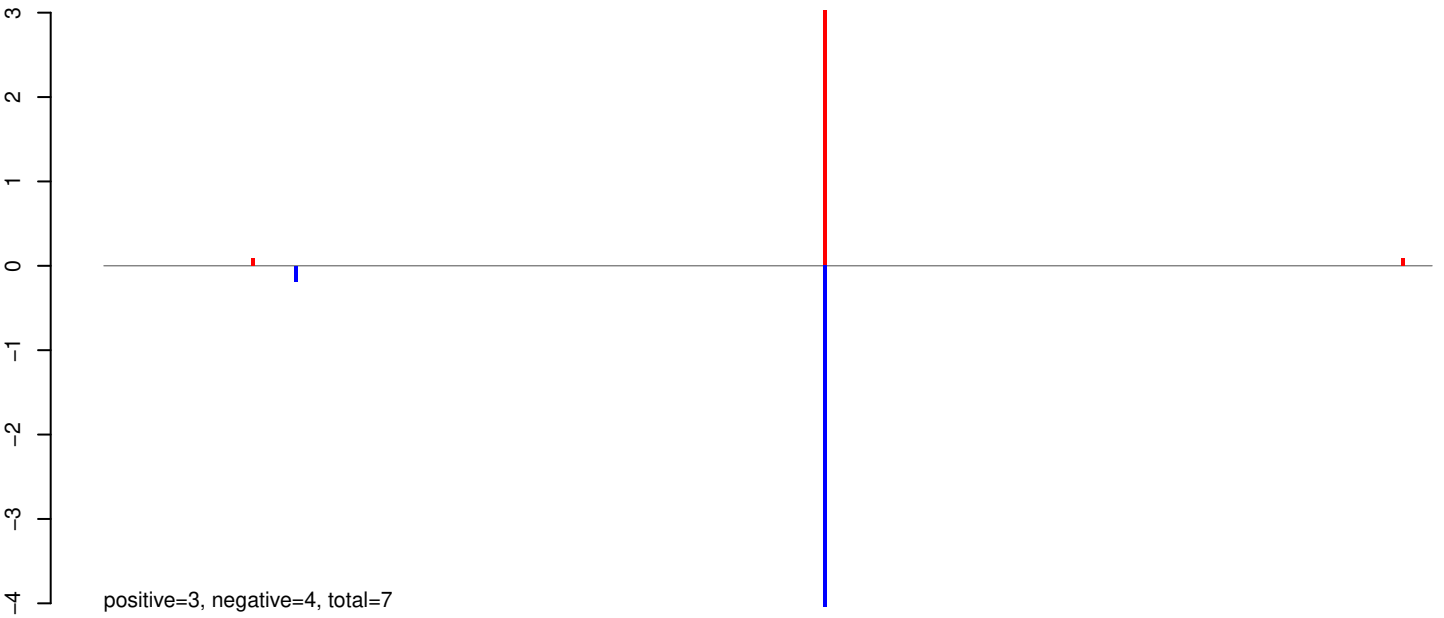
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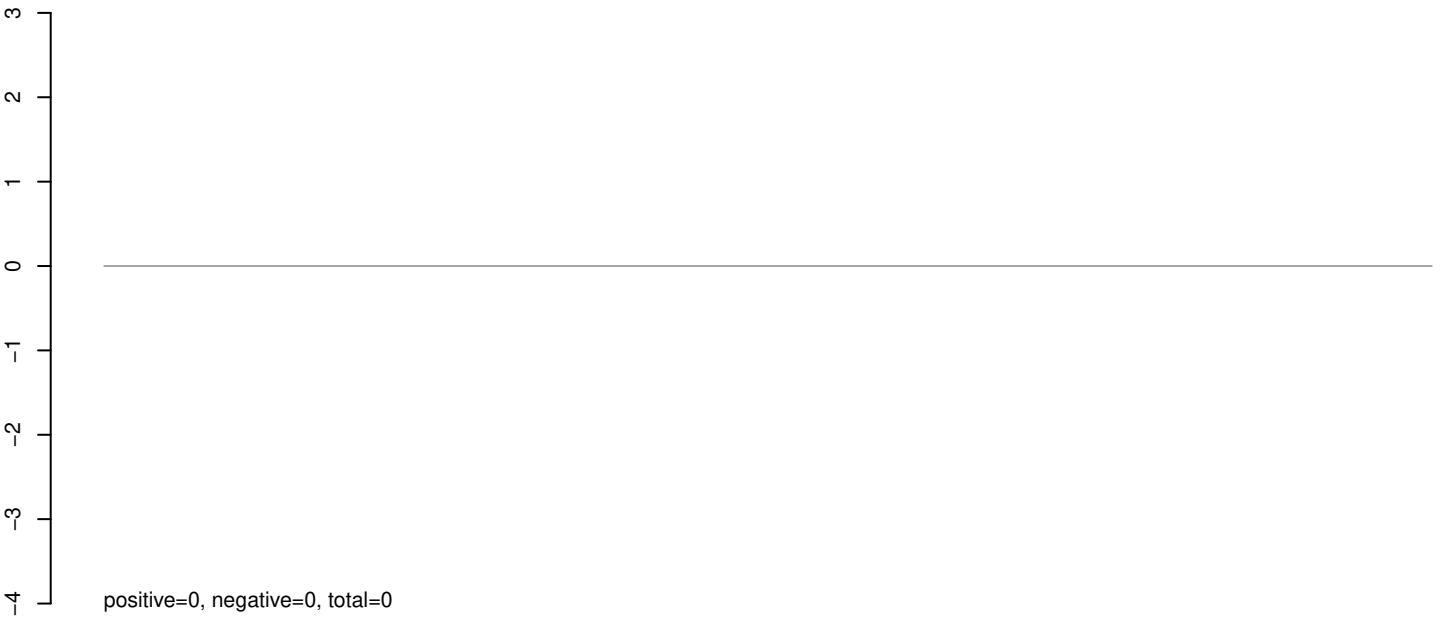
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0 5000 10000 15000

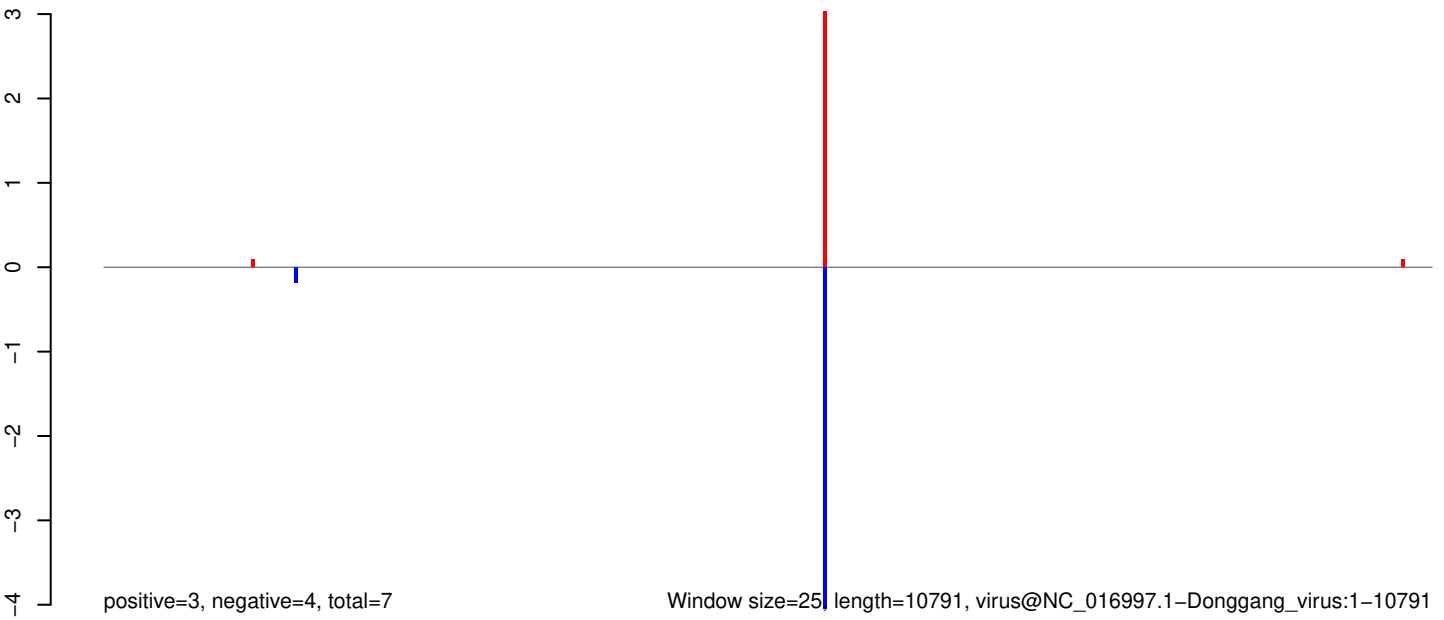
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



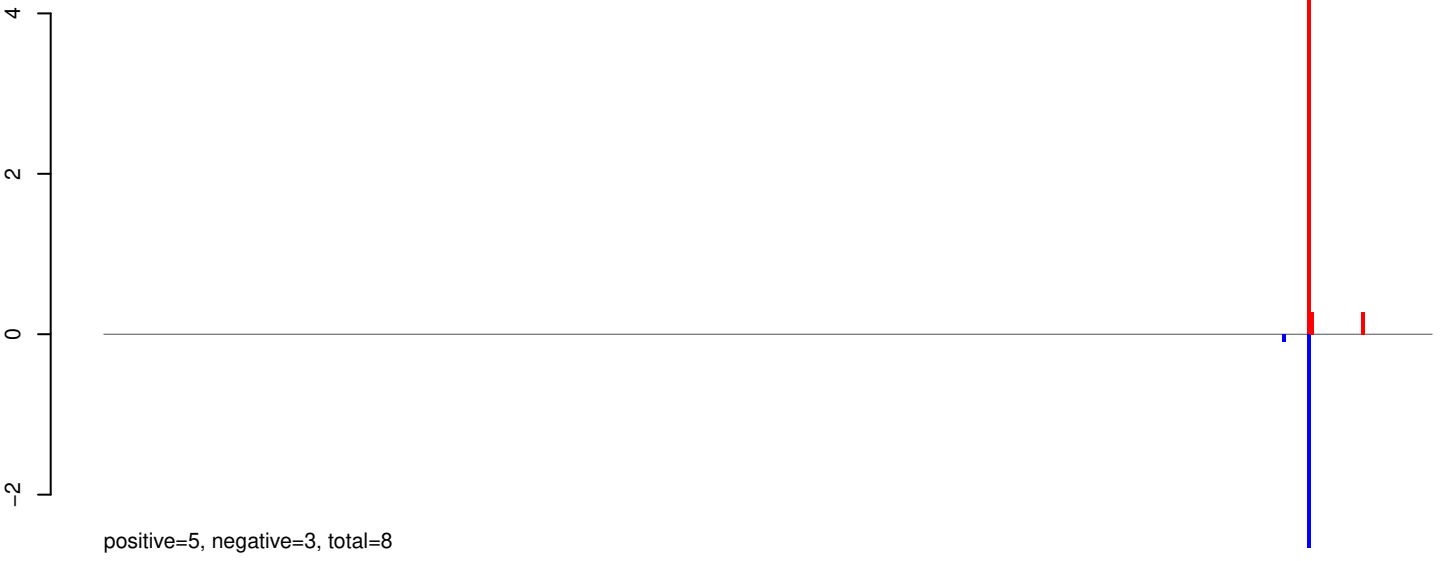
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



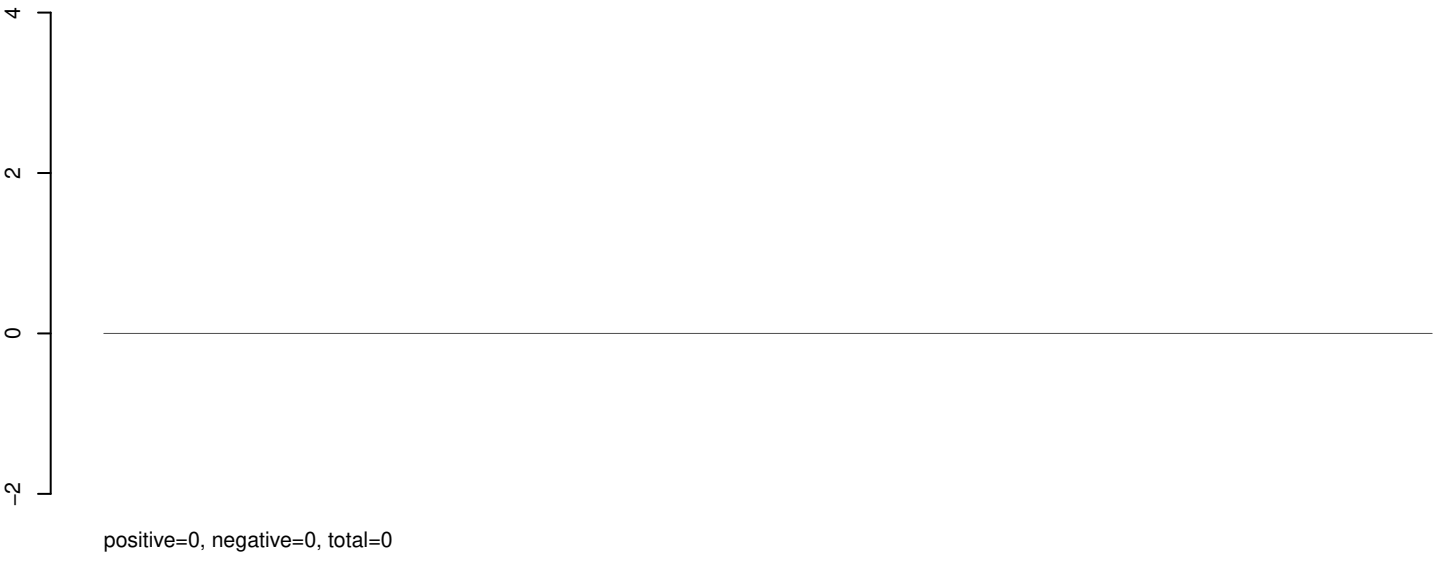
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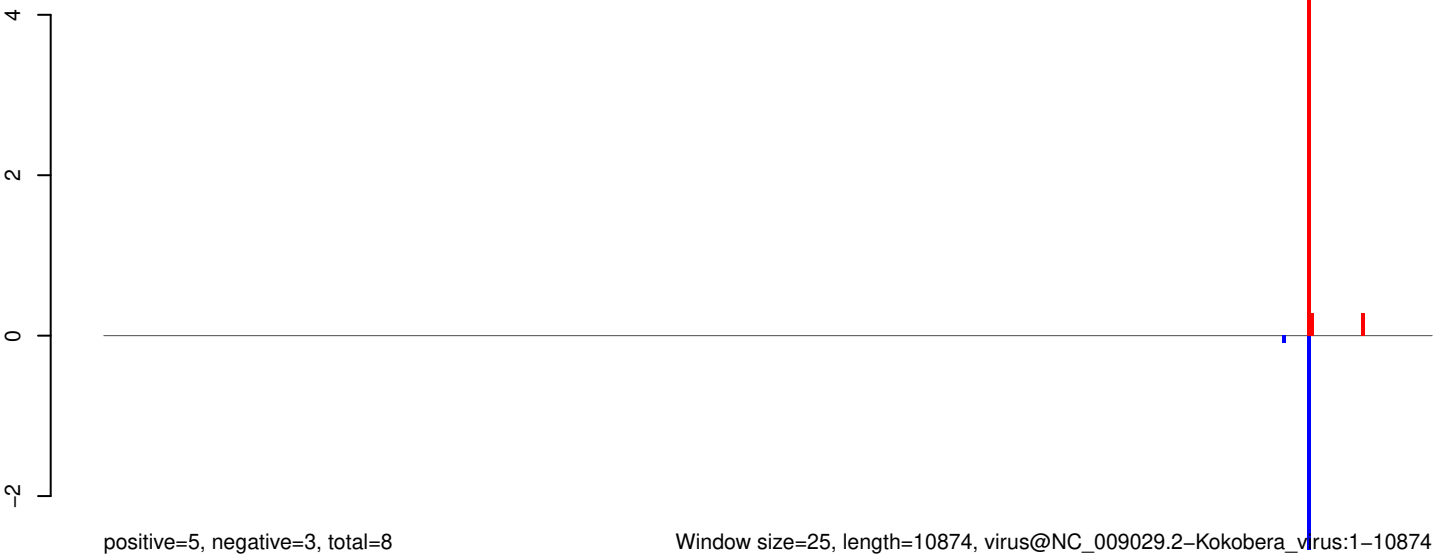
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



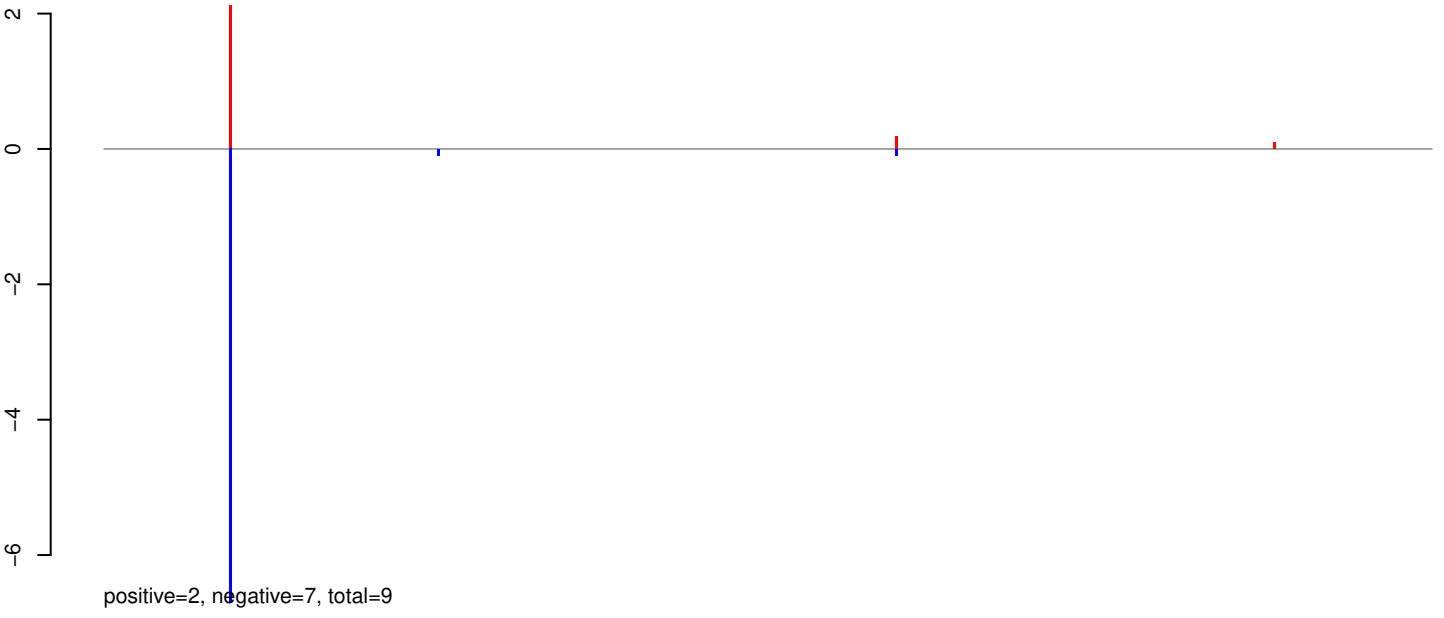
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



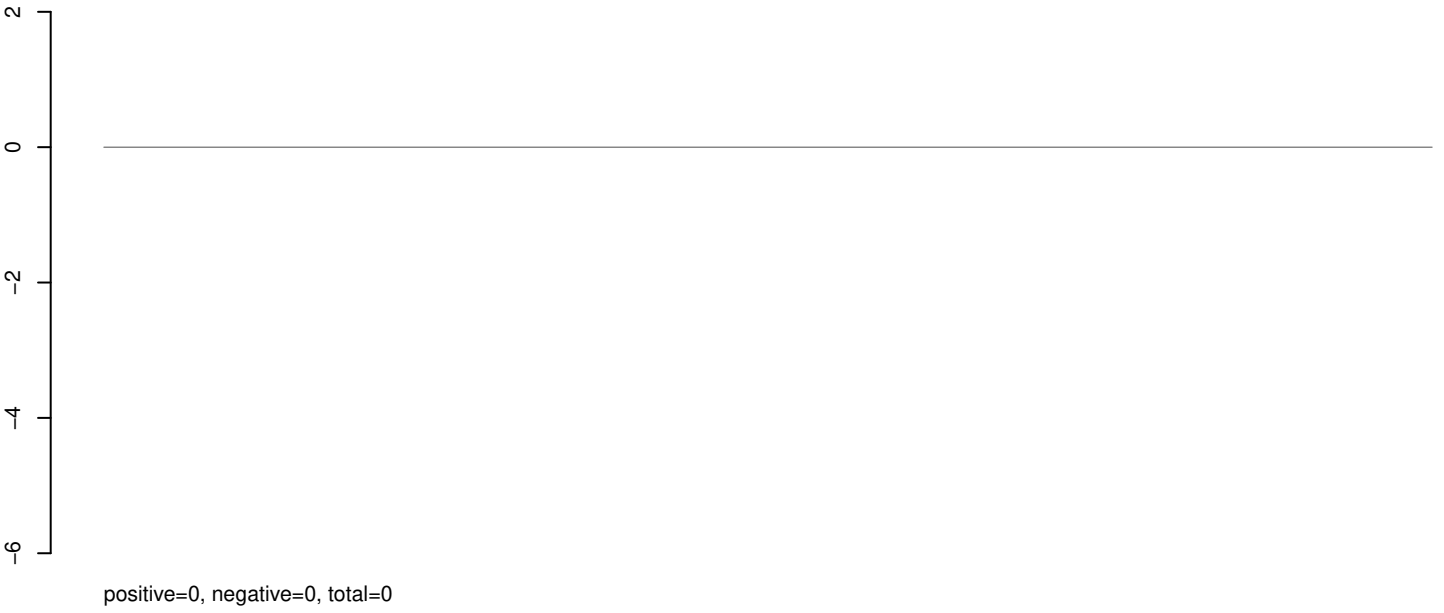
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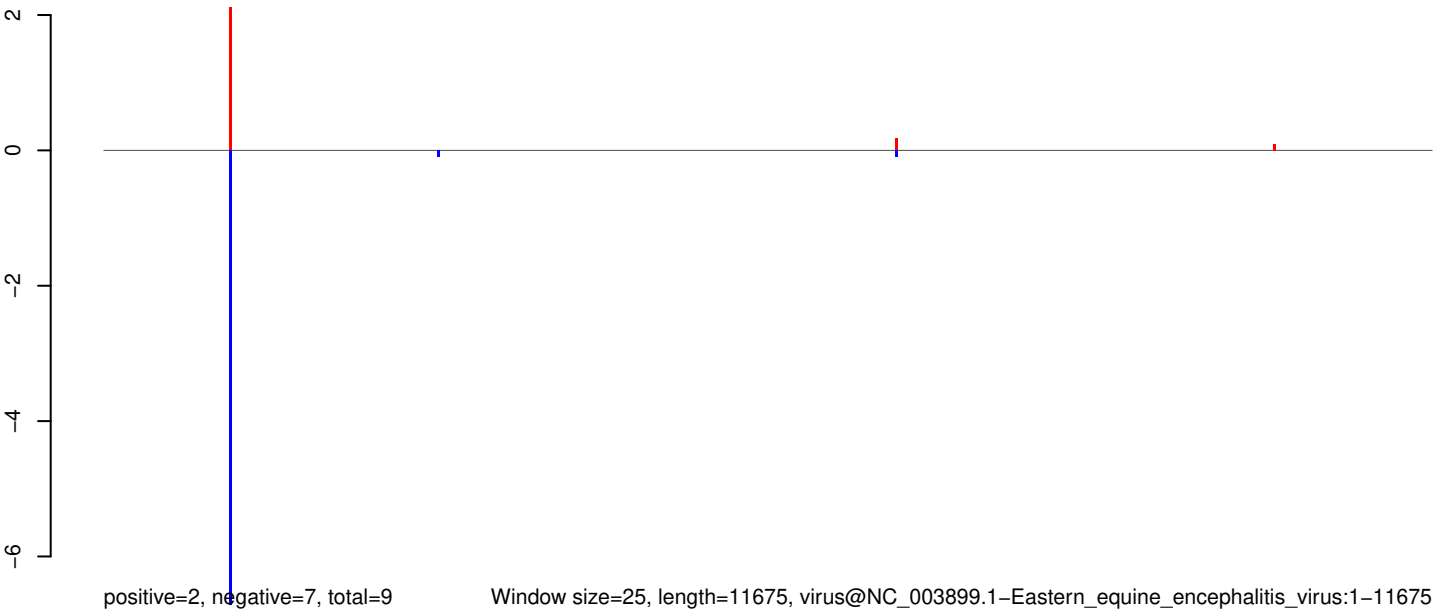
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

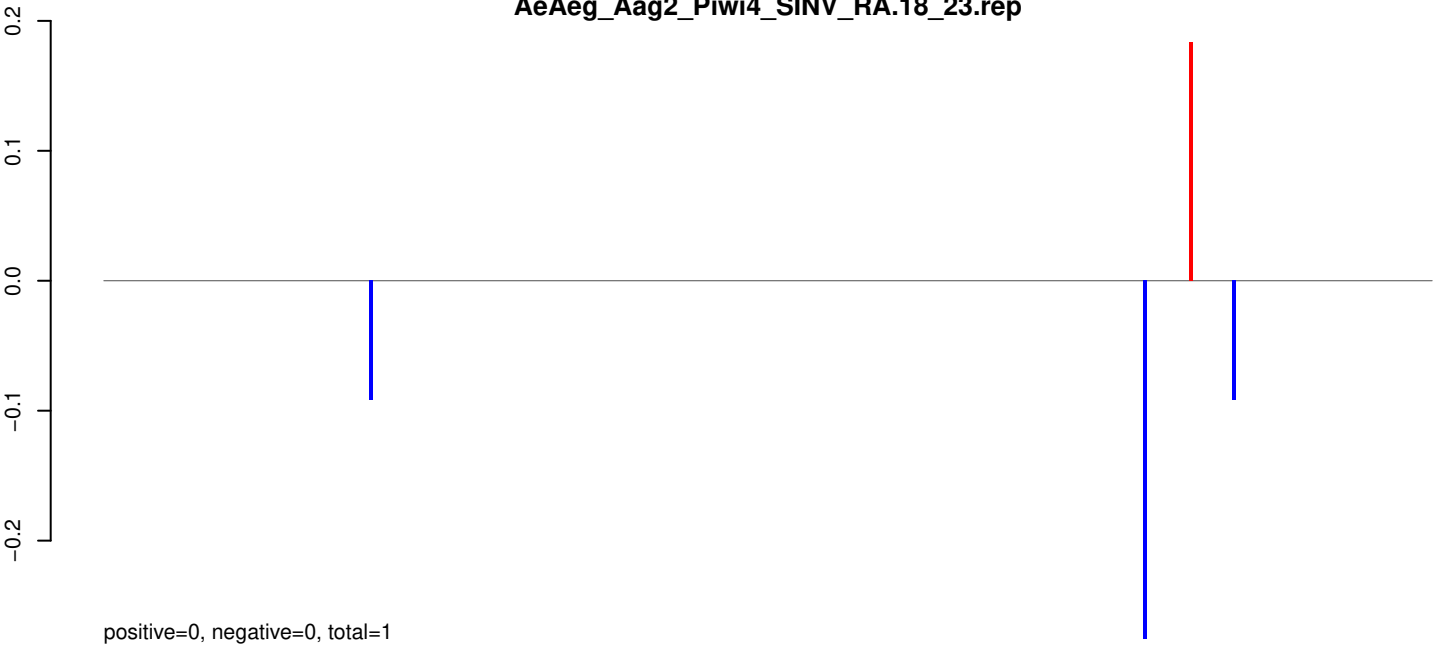


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0 2000 4000 6000 8000 10000 12000



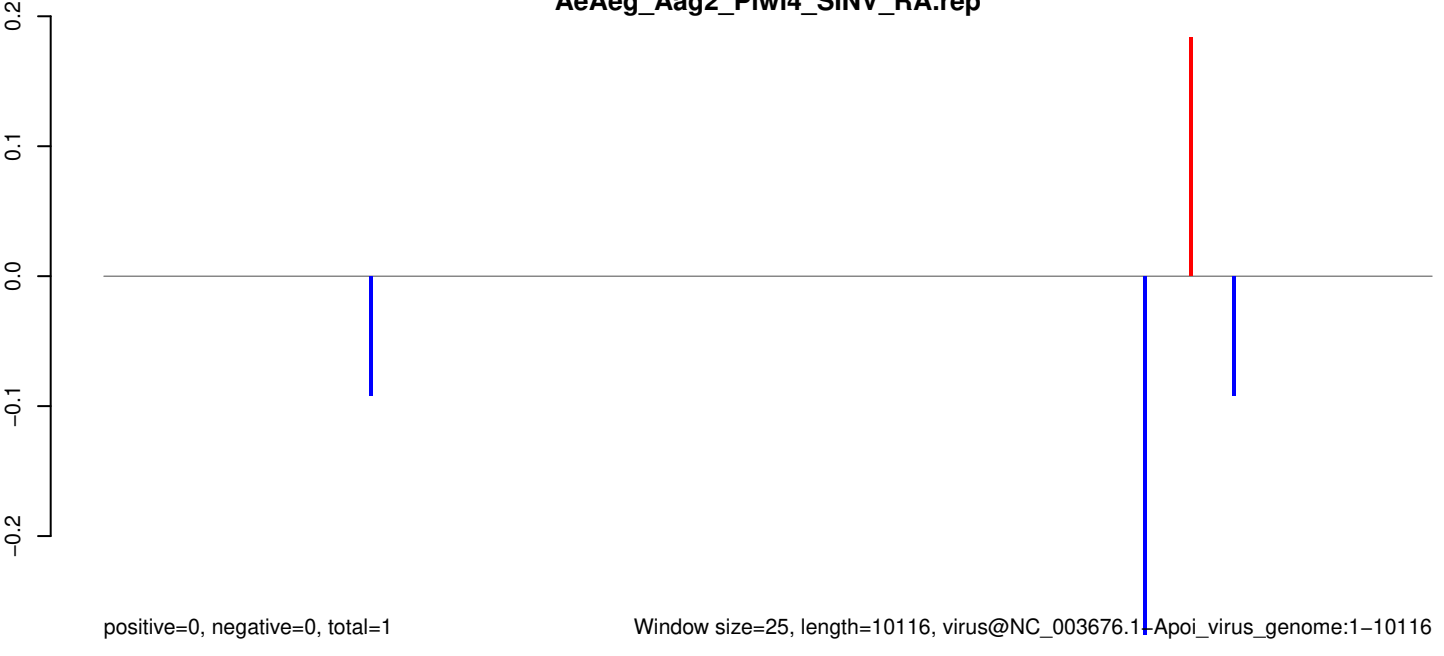
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



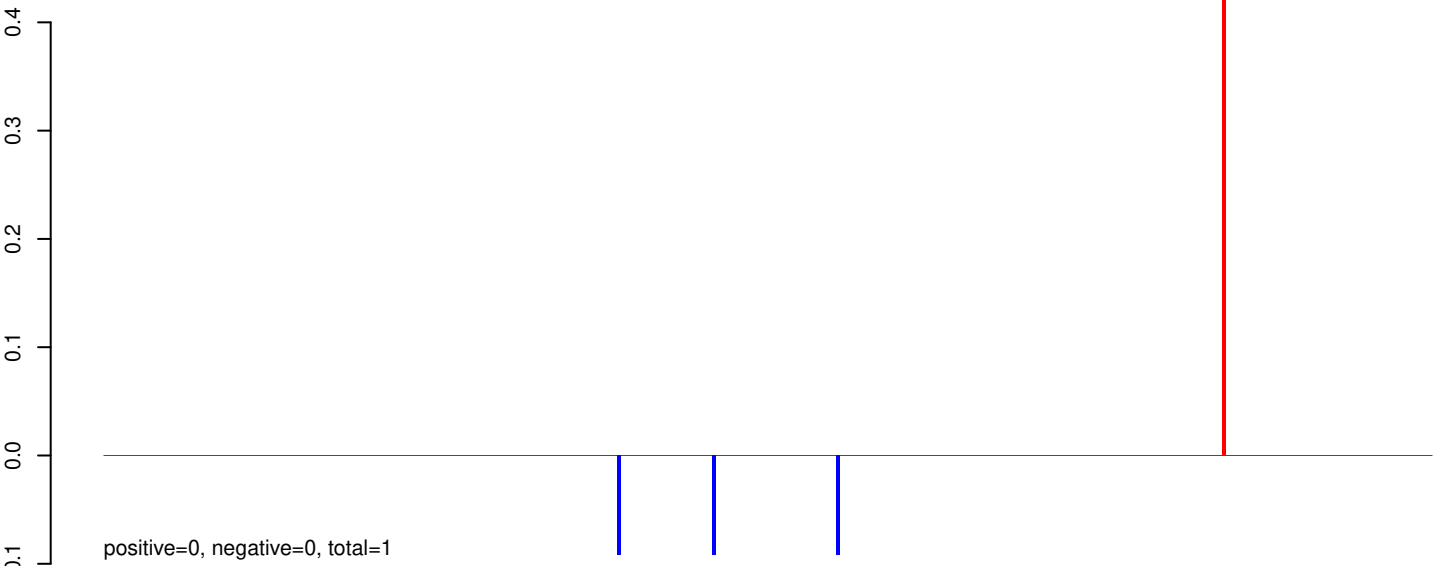
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



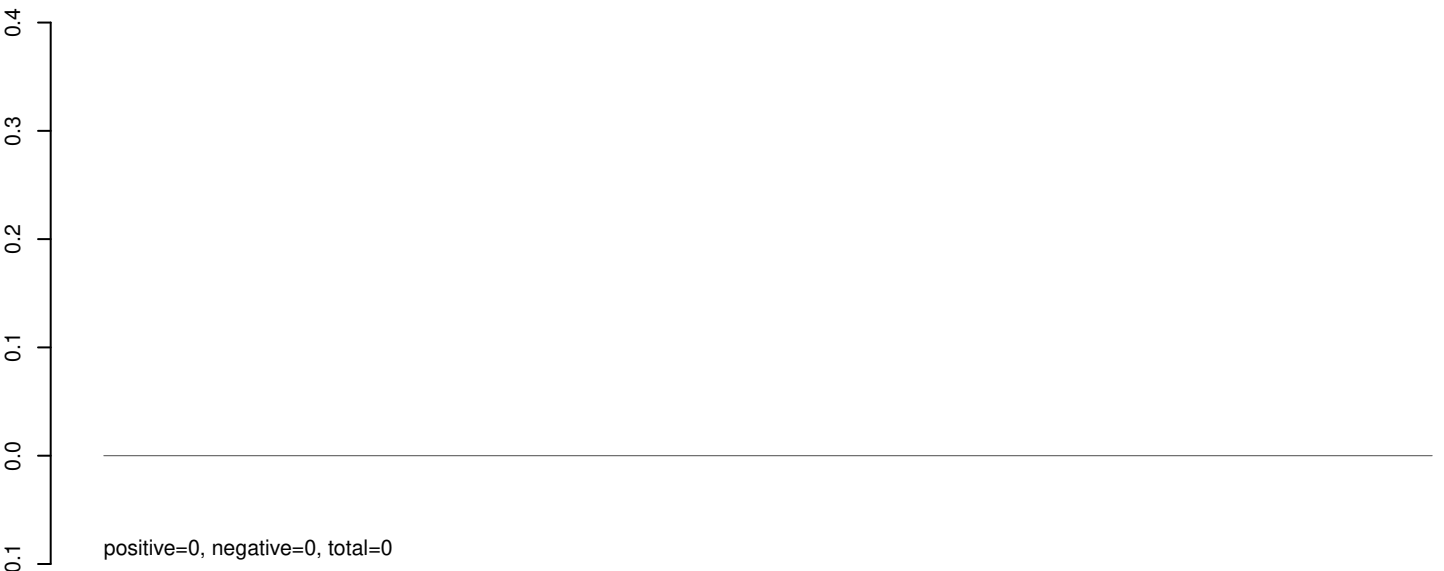
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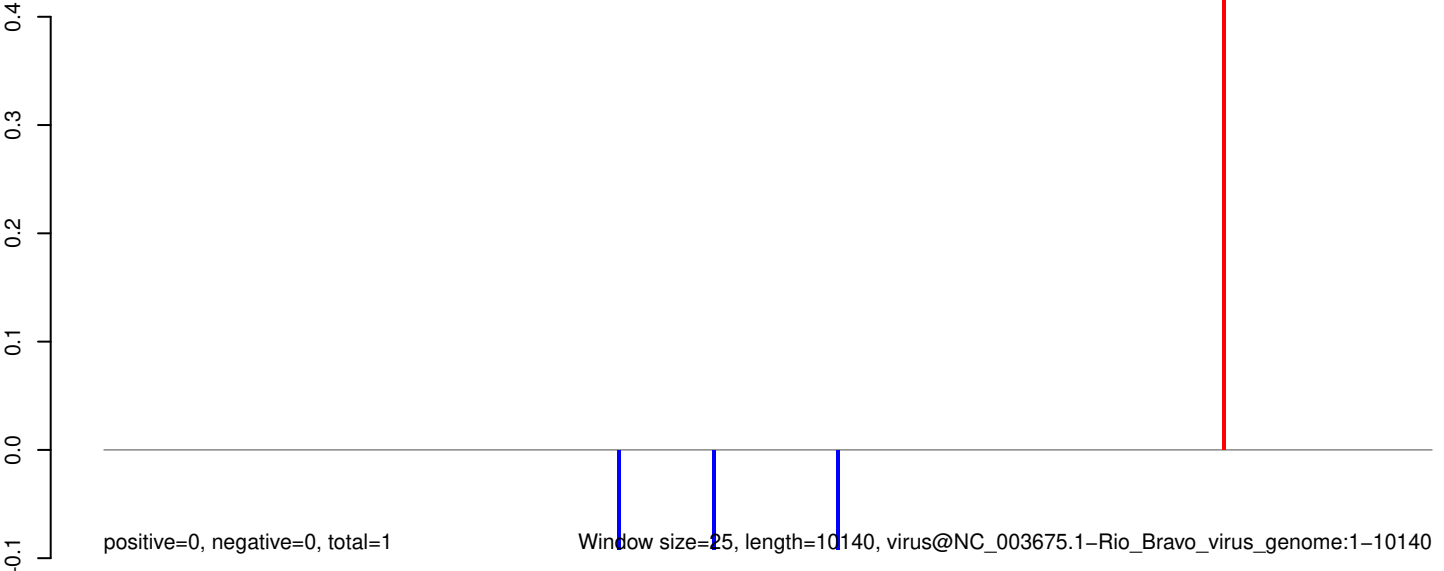
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

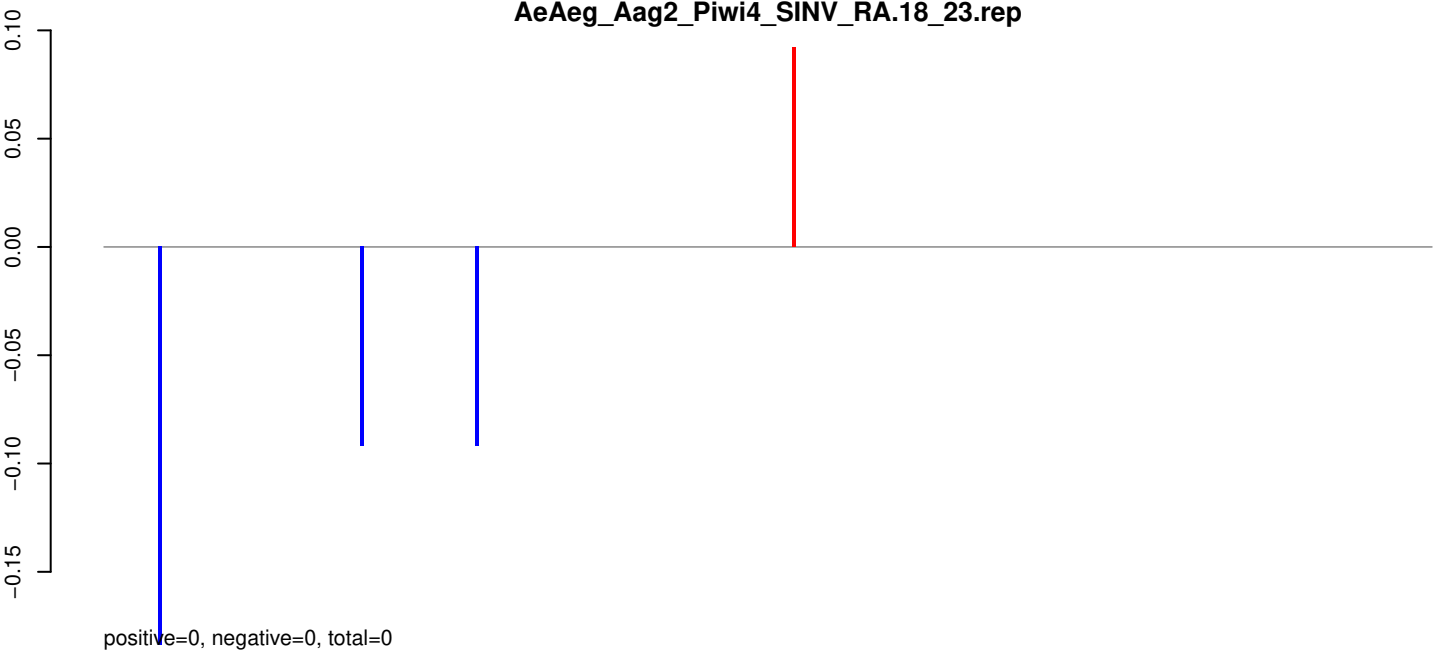


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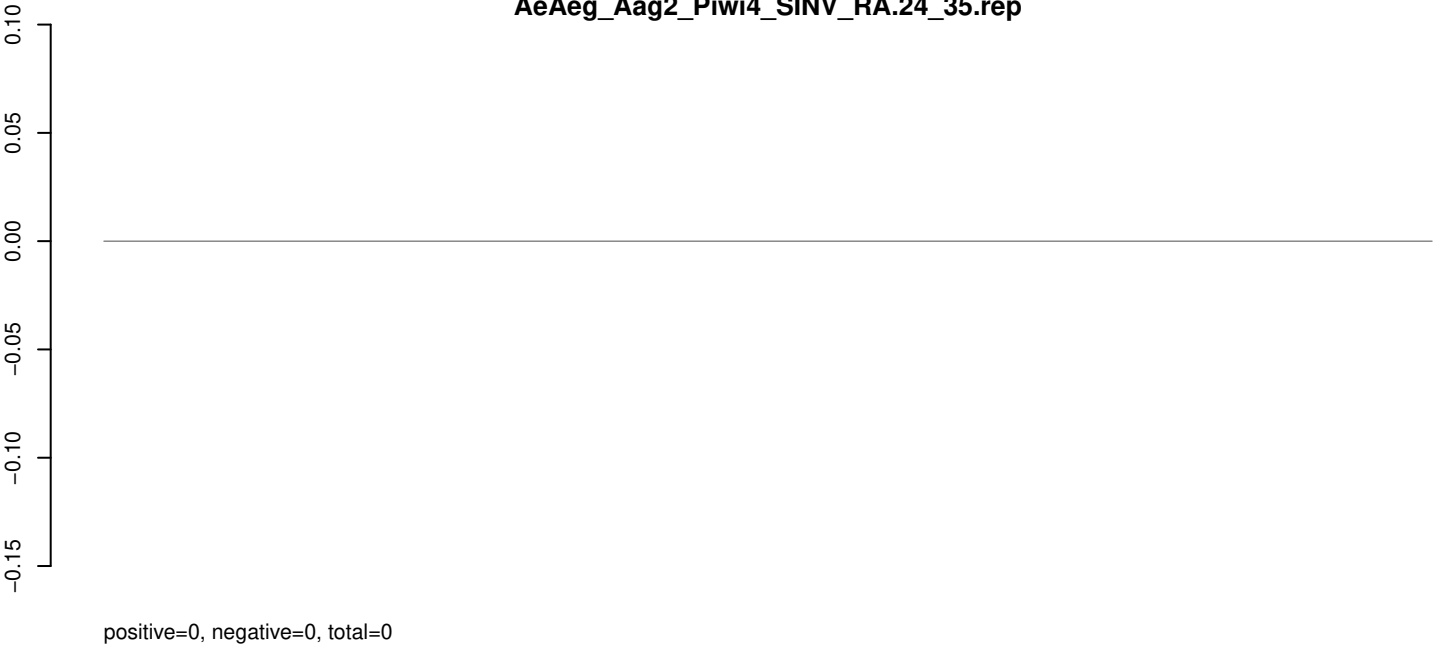


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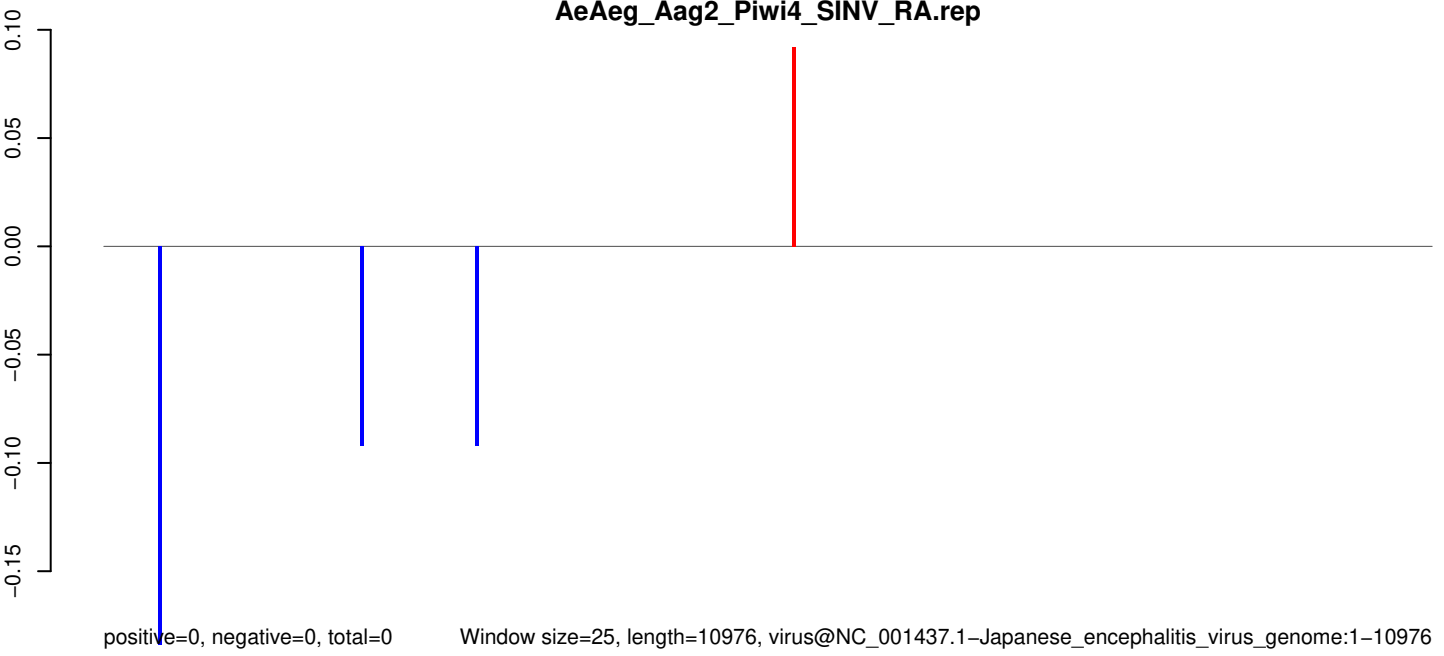
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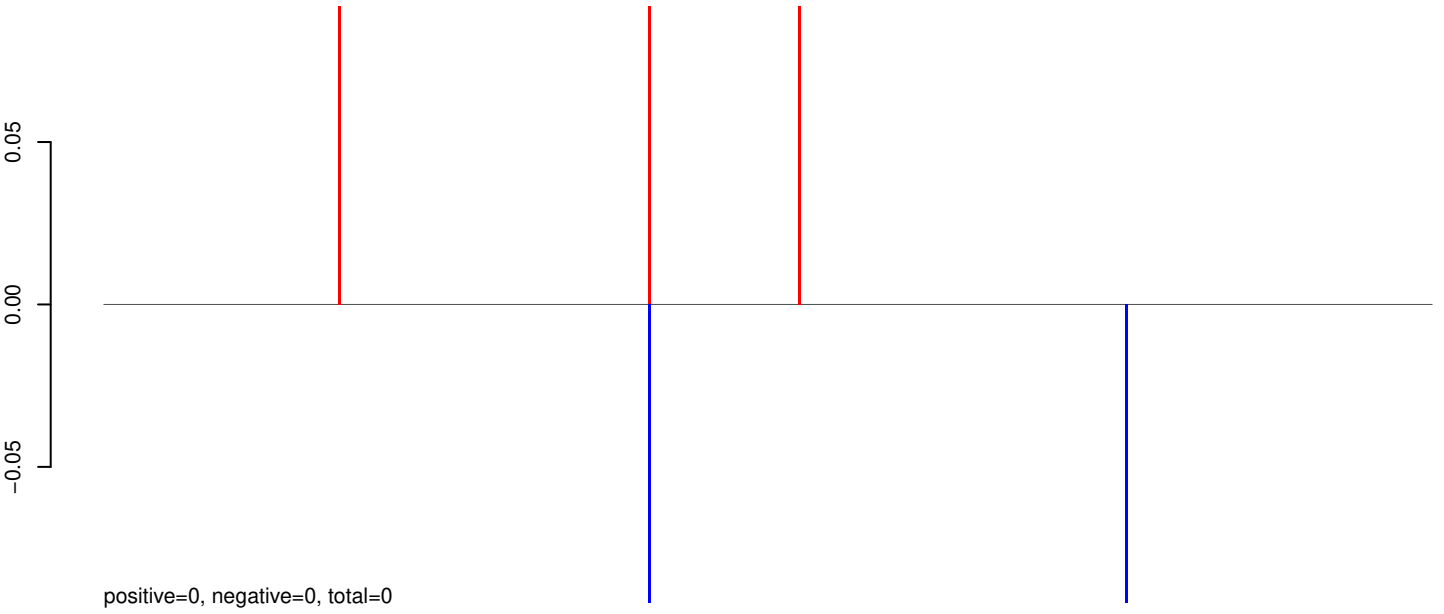
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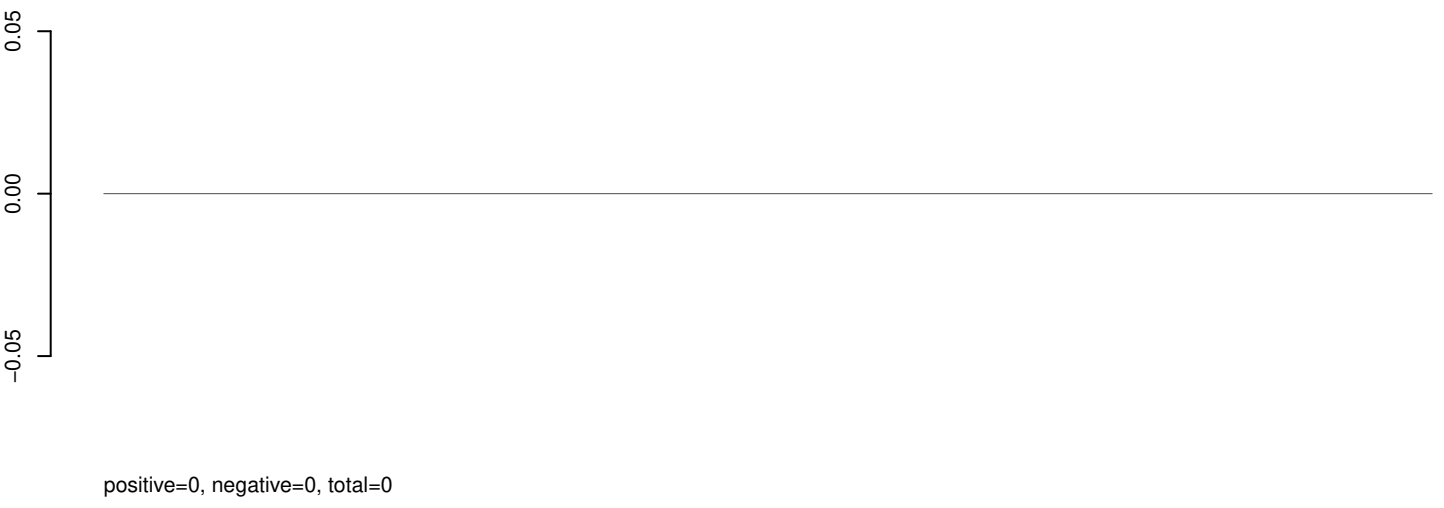
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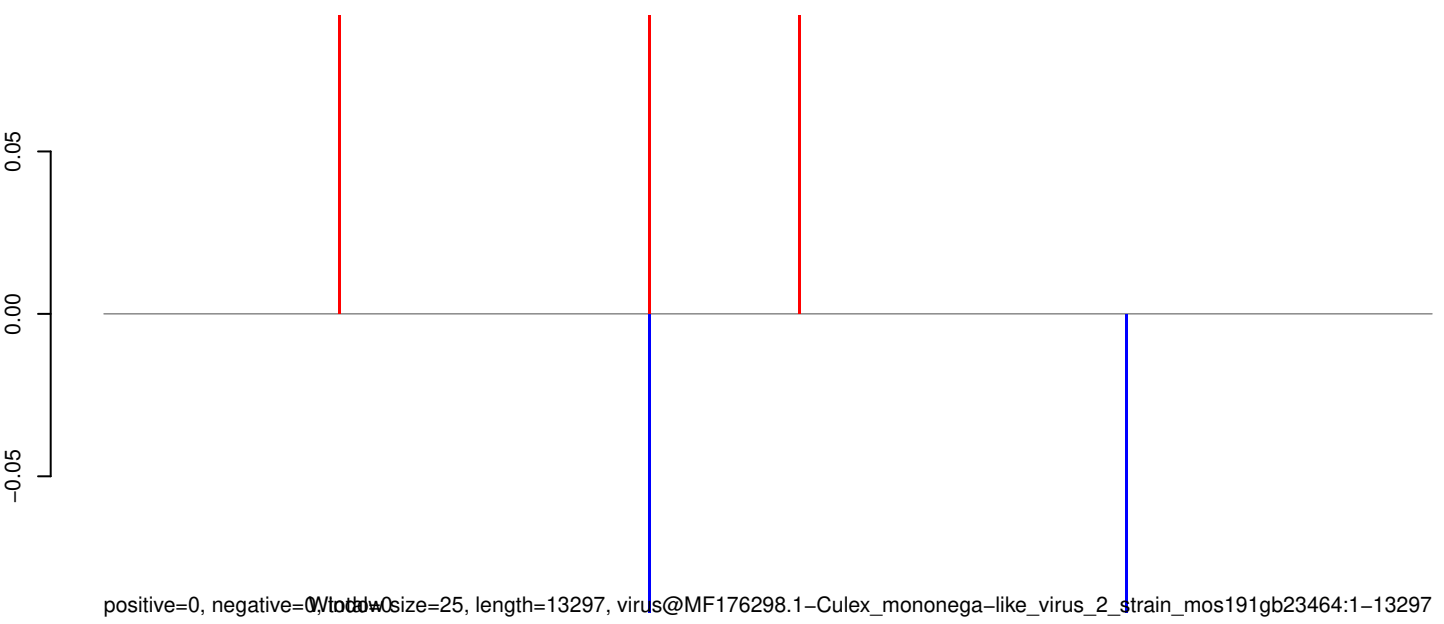
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

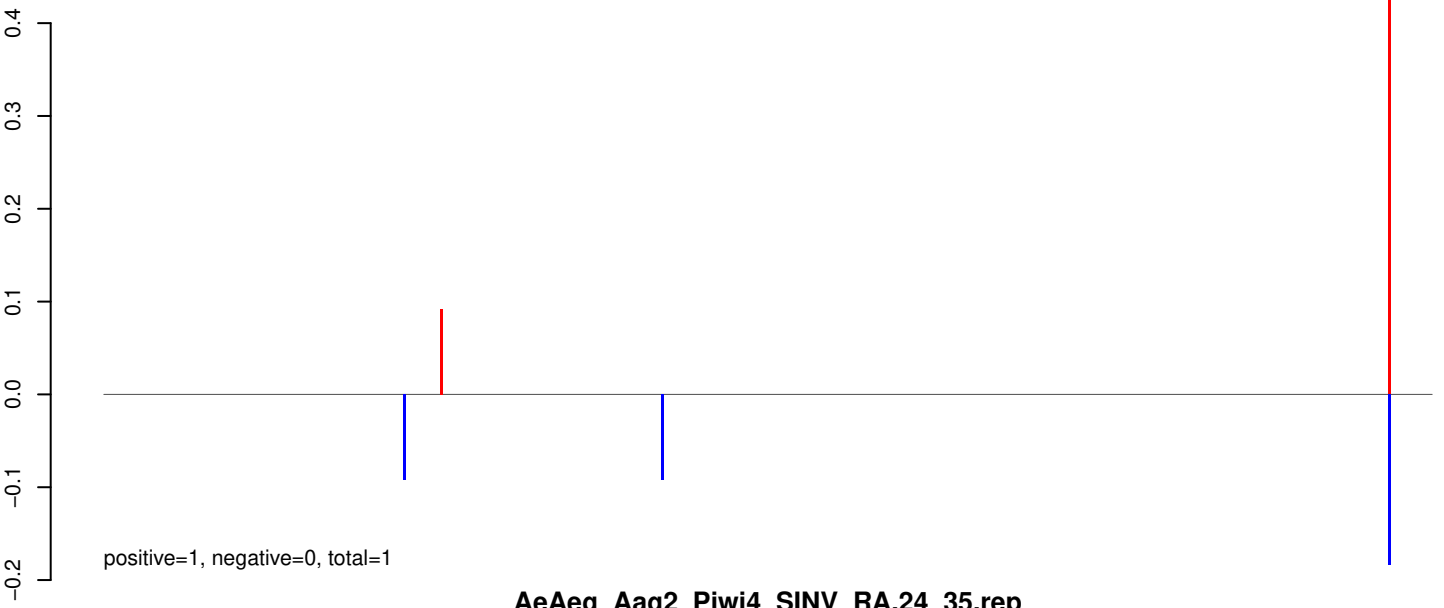


Window size=25, length=13297, virus@MF176298.1-Culex\_mononega-like\_virus\_2\_strain\_mos191gb23464:1-13297

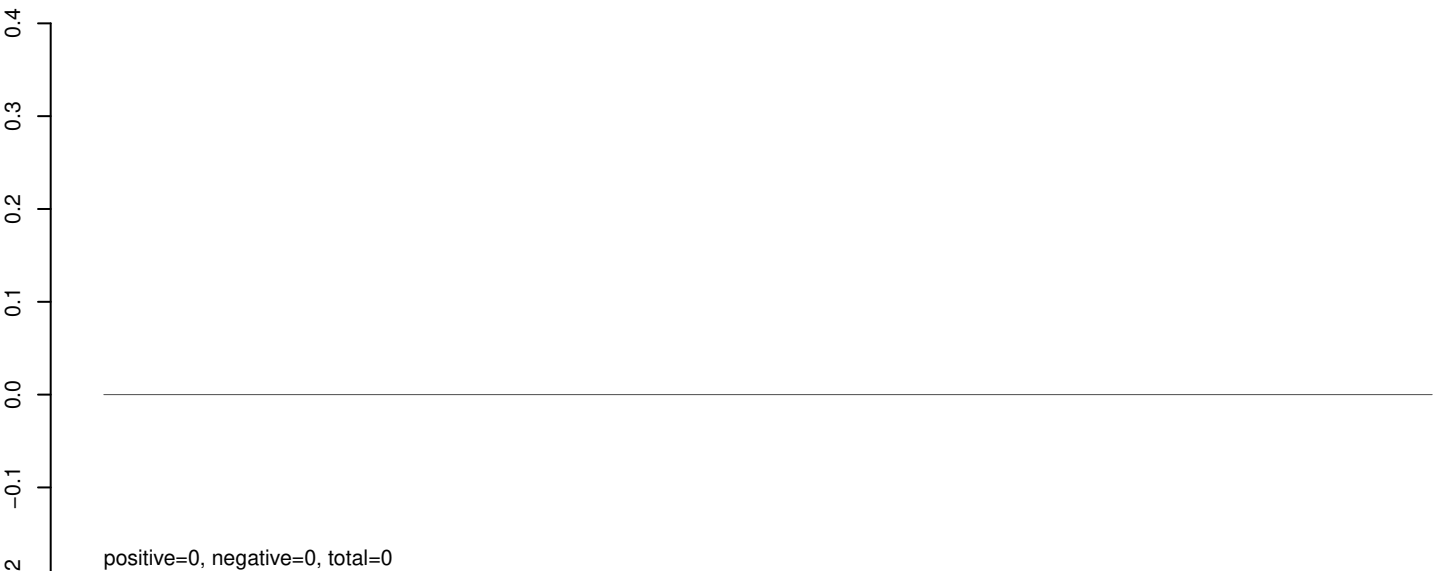
0 2000 4000 6000 8000 10000 12000



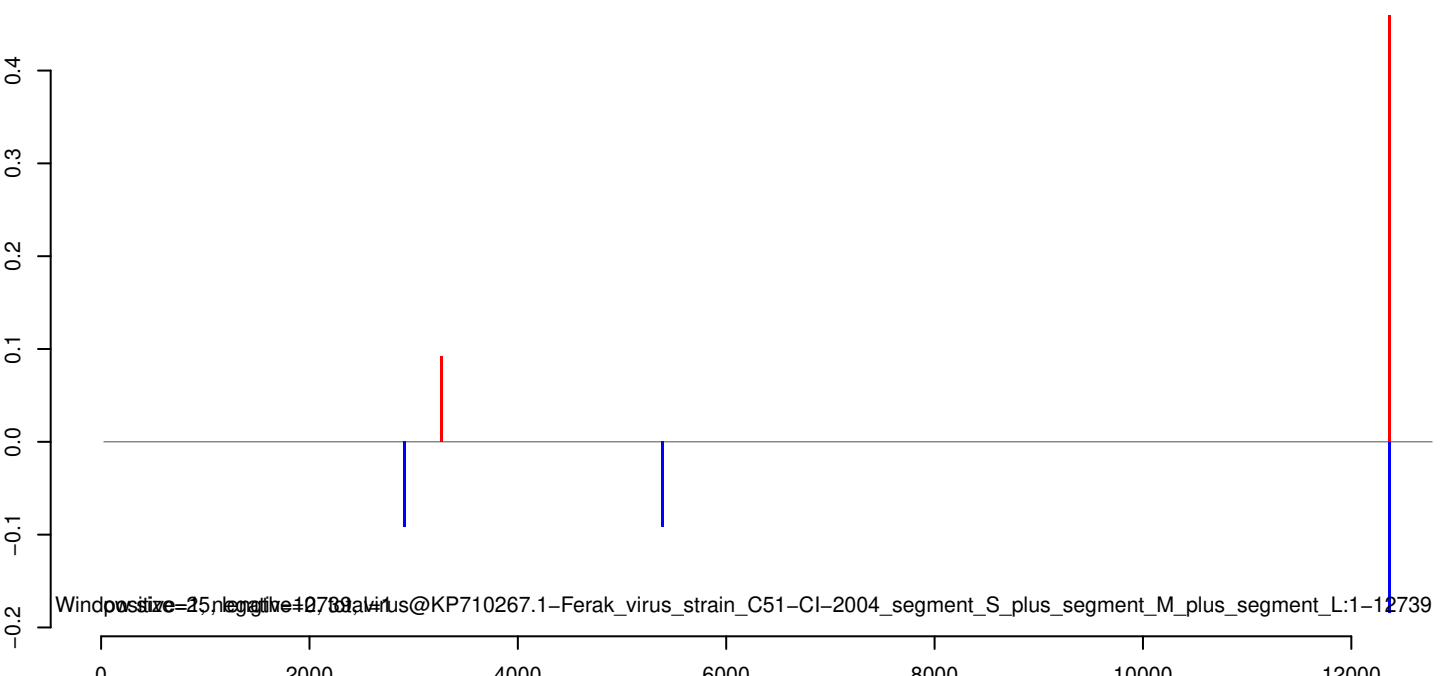
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



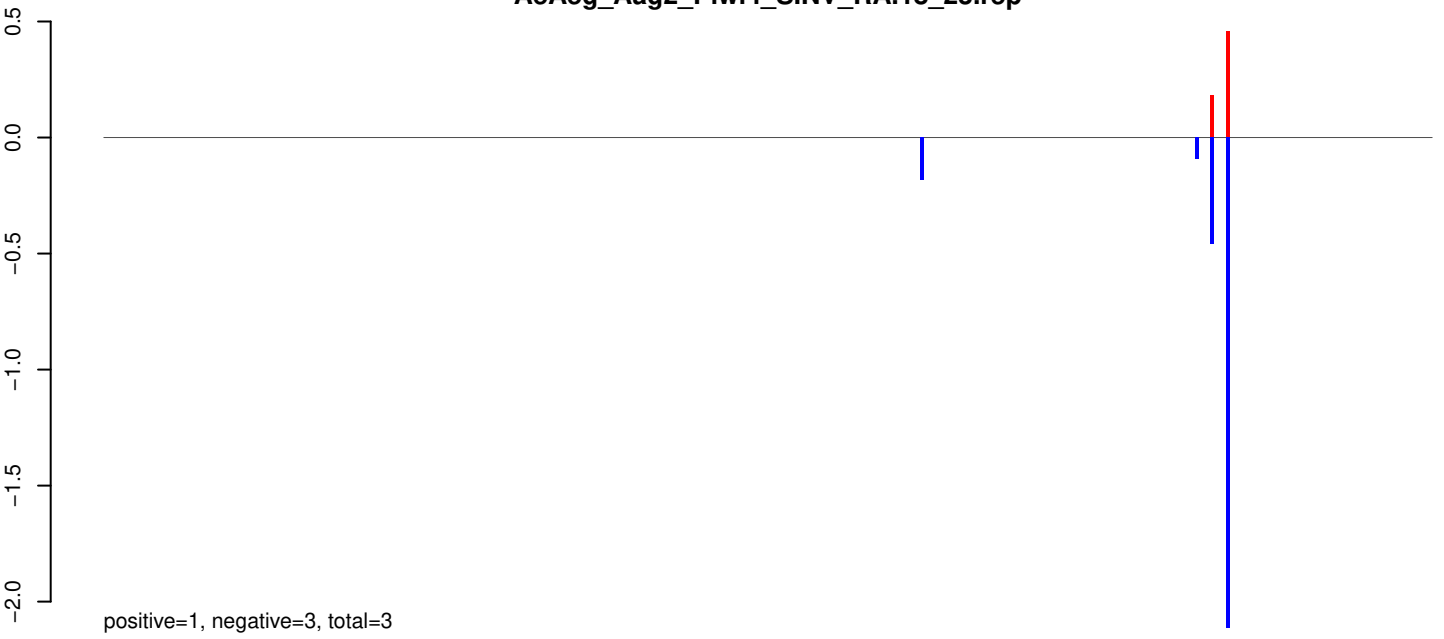
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



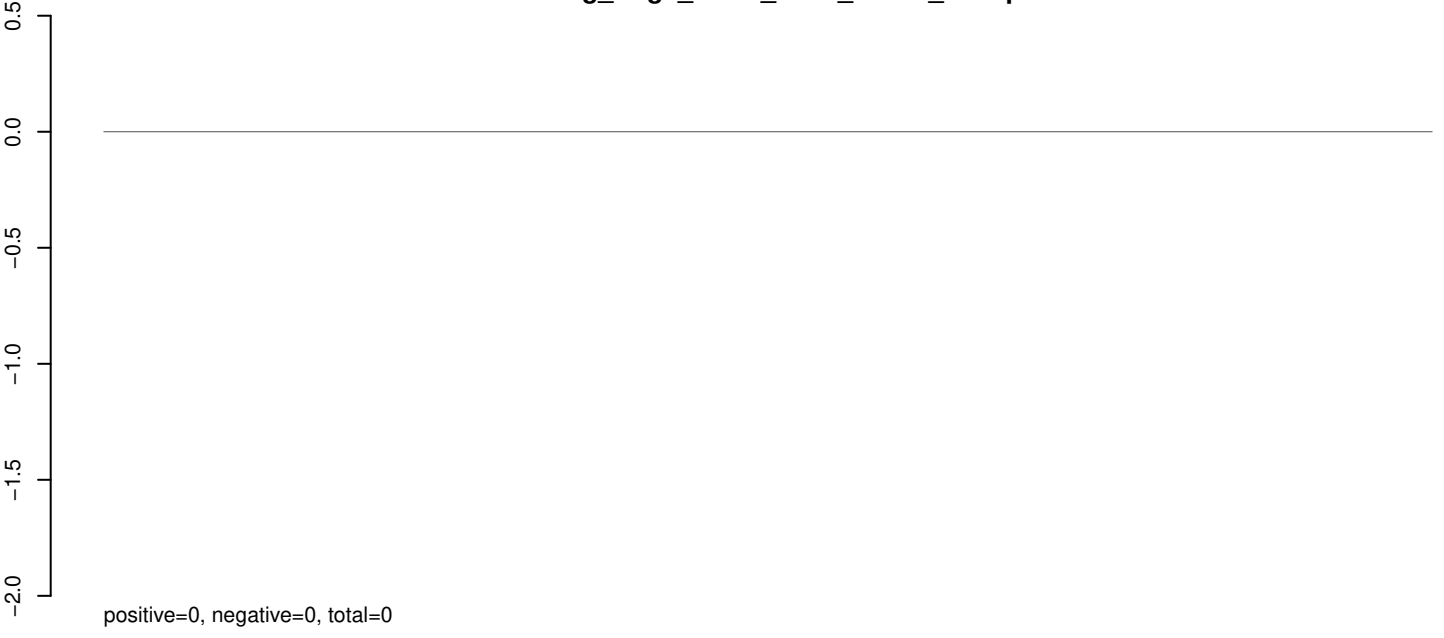
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



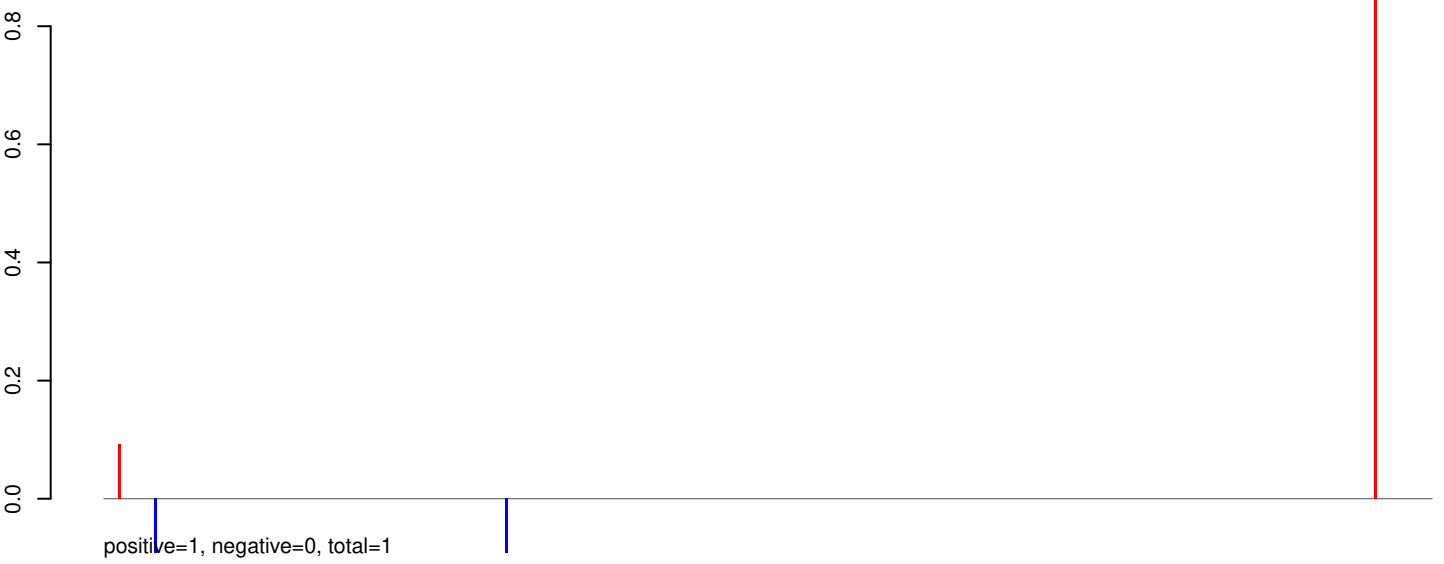
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



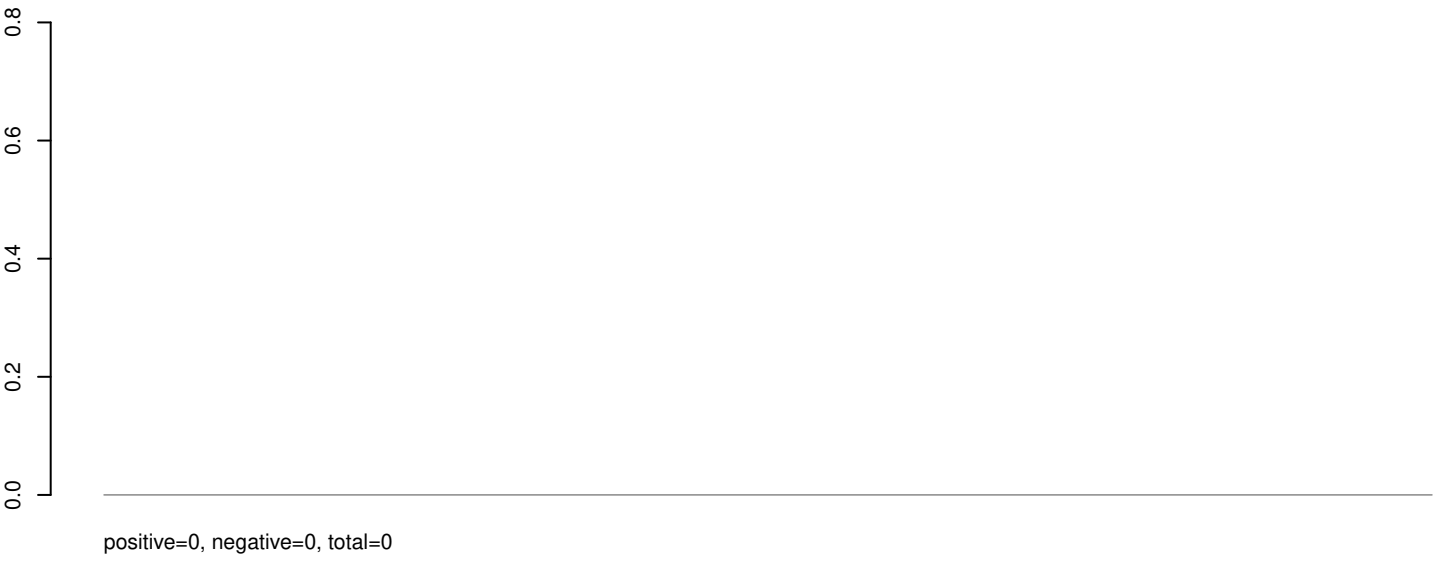
Window size=25, length=10648, virus@KM225264.1-Bainyik\_virus\_strain\_MK7979:1-10648

0 2000 4000 6000 8000 10000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

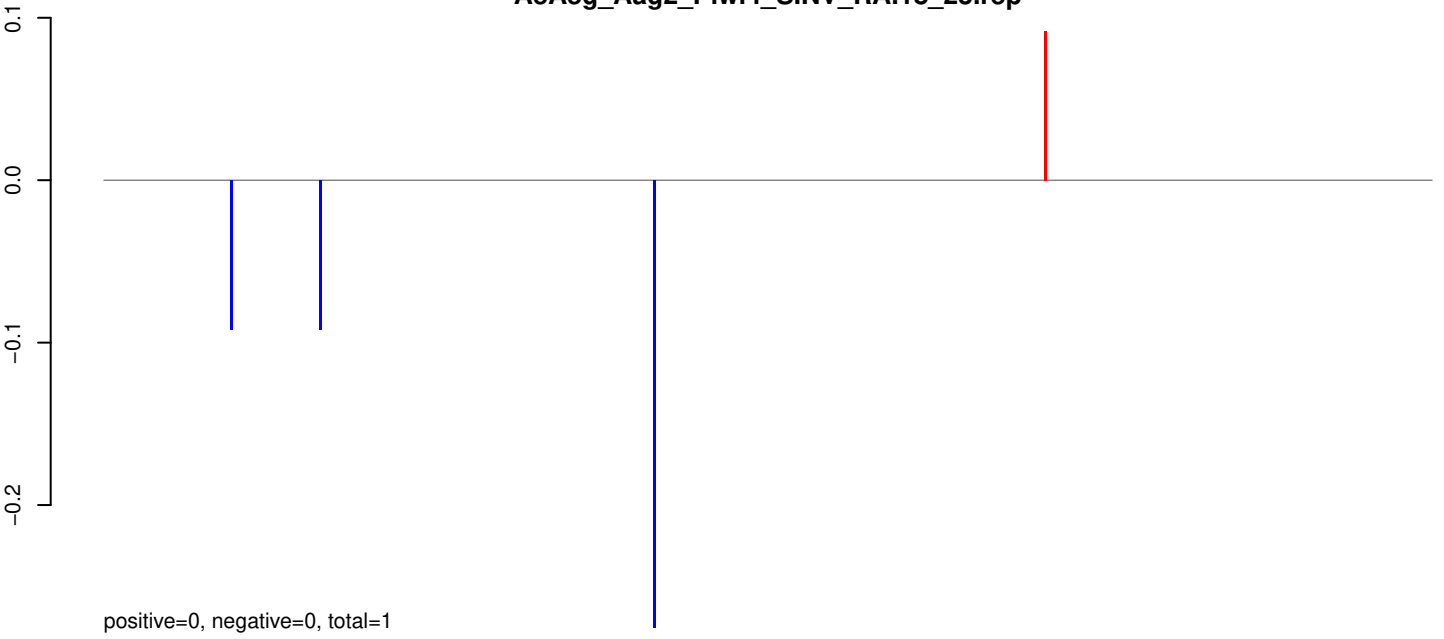


Window size=25, length=11344, virus@AF075256.1-Pixuna\_virus\_strain\_Pixuna\_BeAr\_35645:1-11344

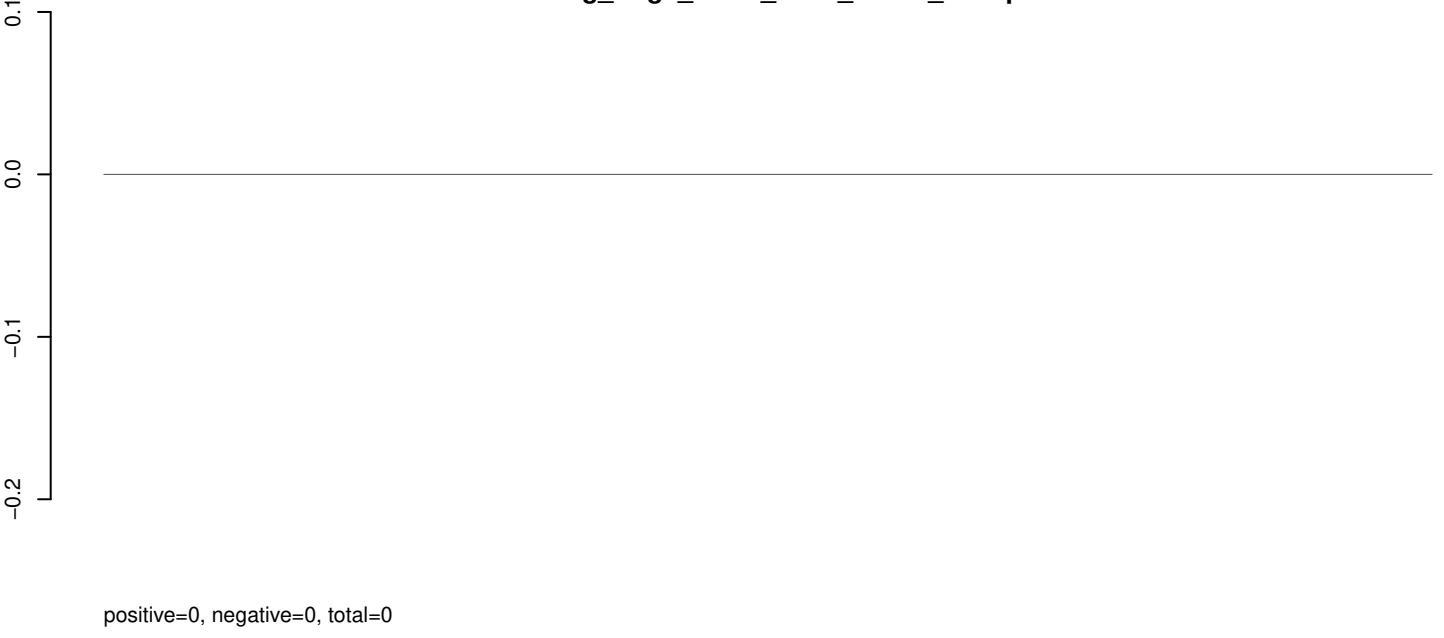
0 2000 4000 6000 8000 10000



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



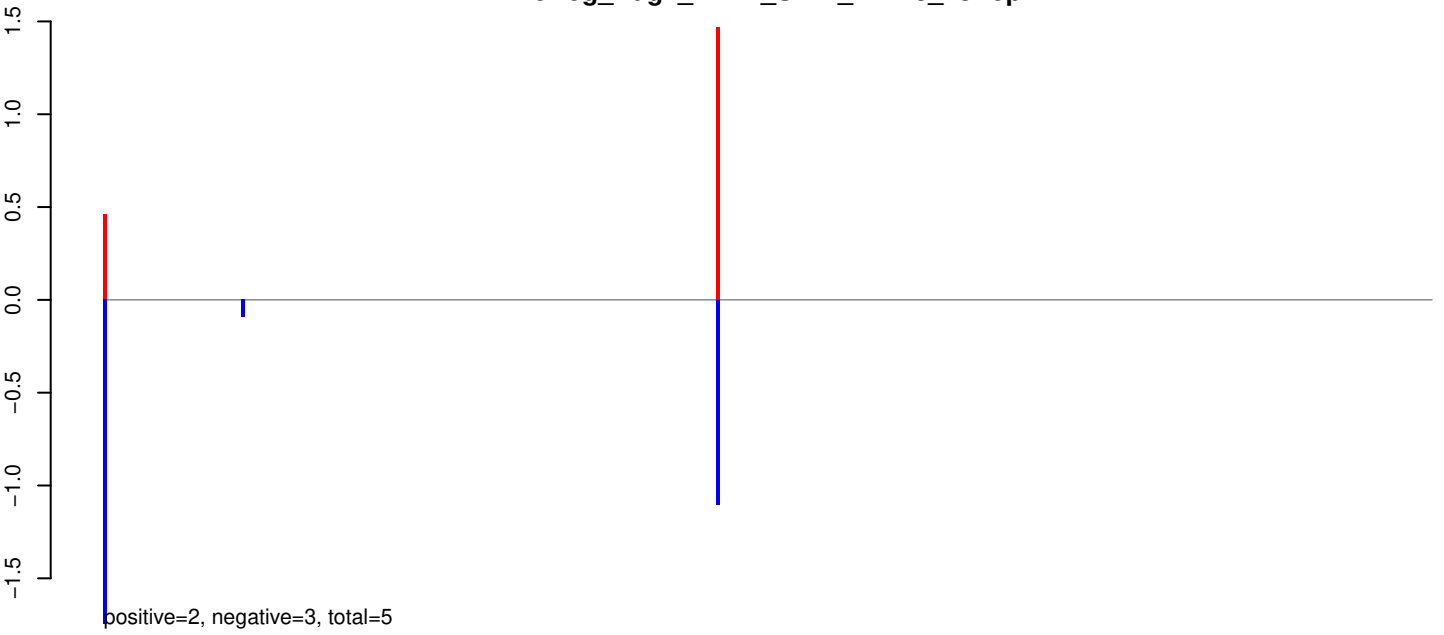
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



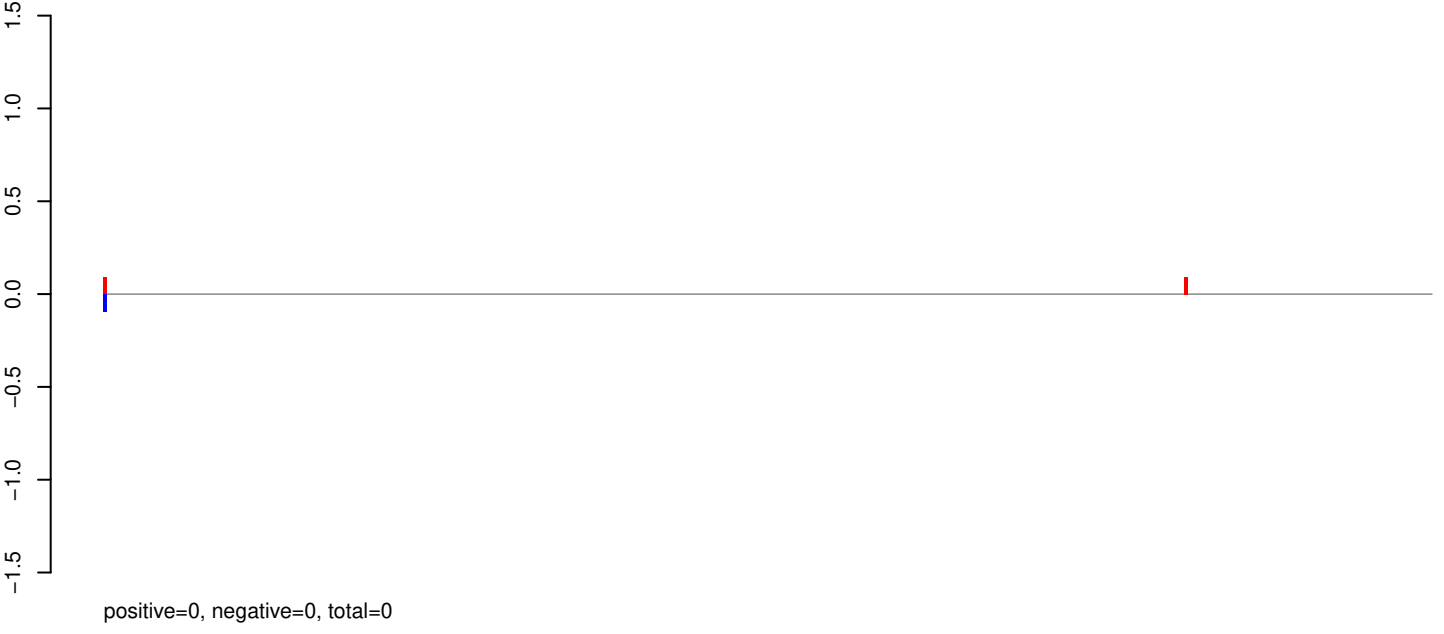
Window size=25, length=11530, virus@AF075254.1-Tonate\_virus\_strain\_Tonate\_CaAn\_410d:1-11530

0 2000 4000 6000 8000 10000 12000

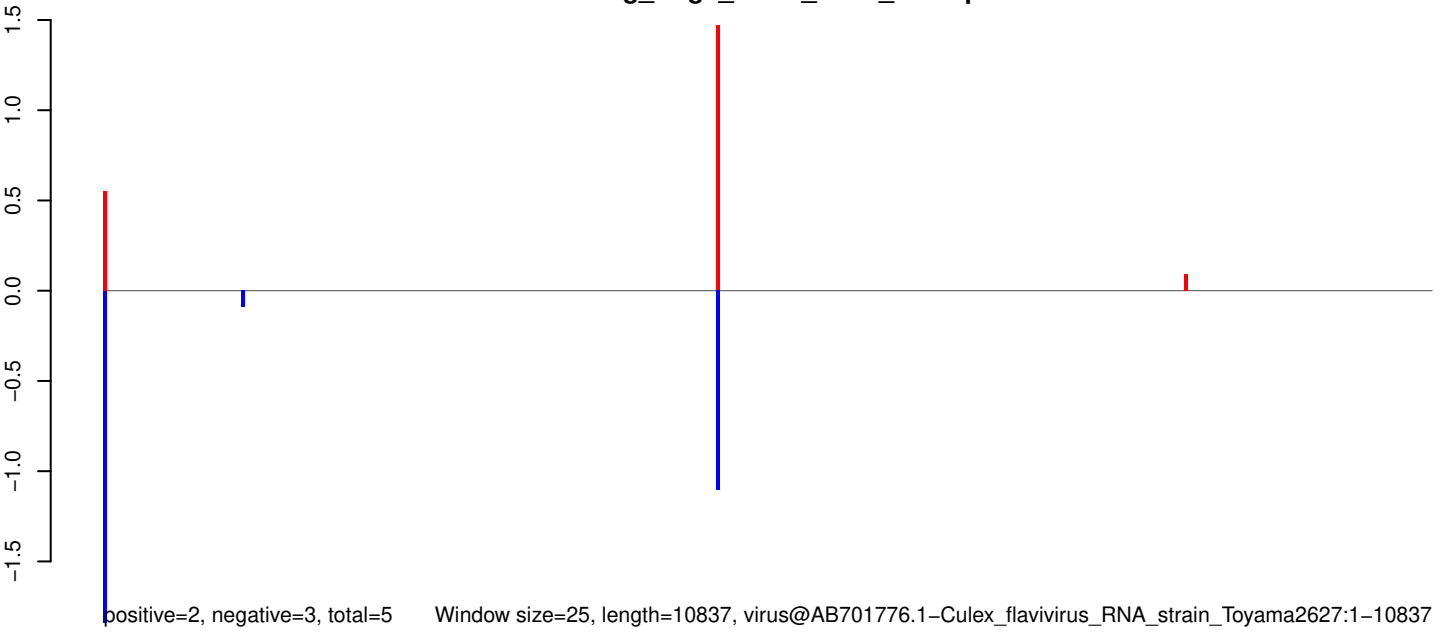
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

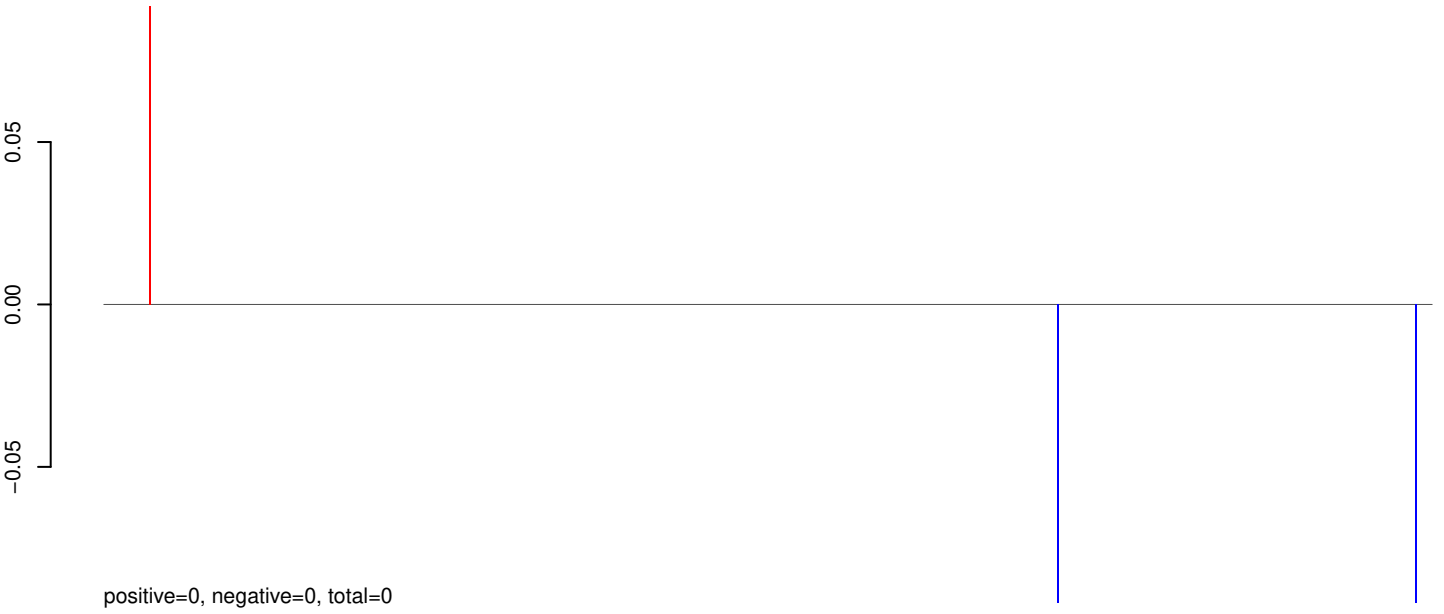


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



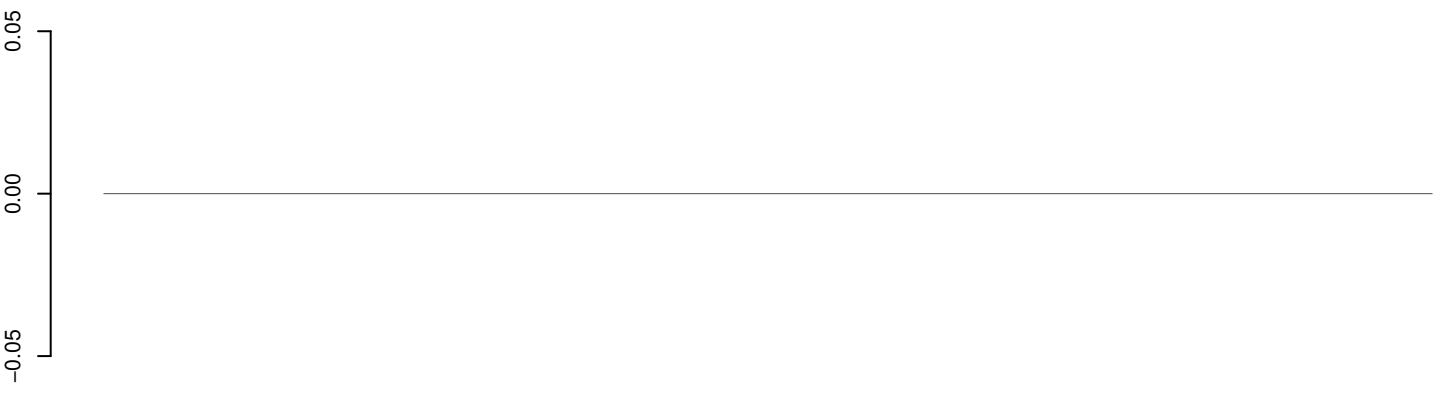
Window size=25, length=10837, virus@AB701776.1-Culex\_flavivirus\_RNA\_strain\_Toyama2627:1-10837

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



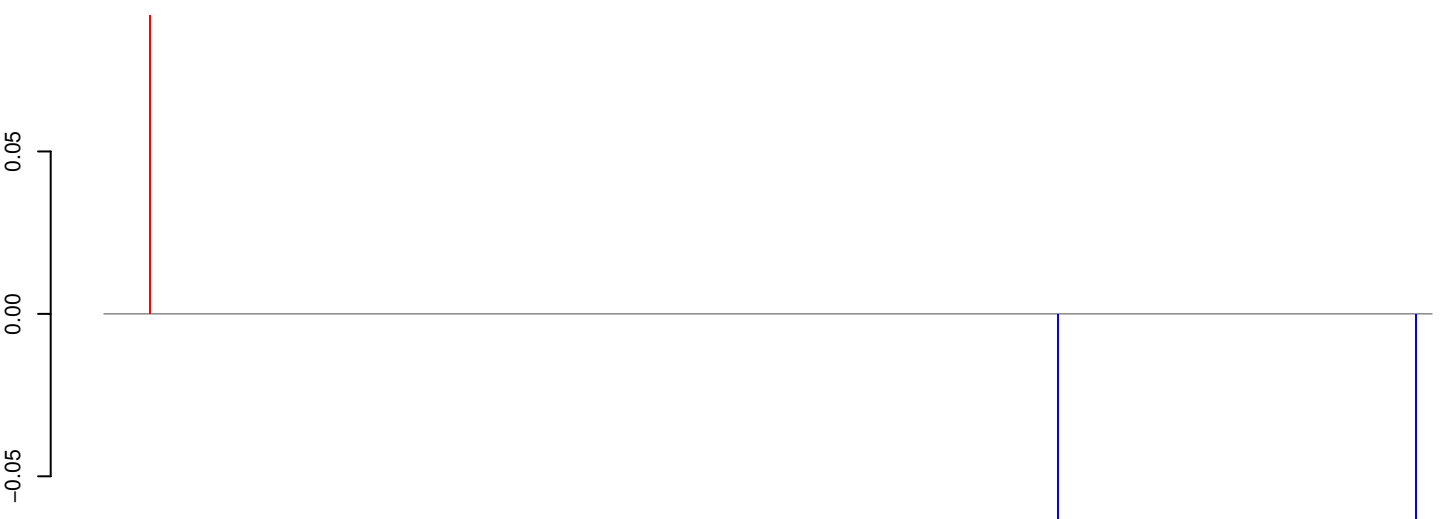
positive=0, negative=0, total=0

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

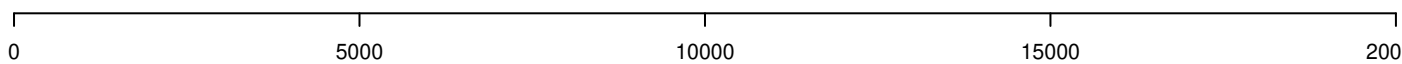


positive=0, negative=0, total=0

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



positive=0, negative=0, total=0, window size=25, length=19208, virus@X12819.1-Bluetongue\_virus\_gene\_for\_capsid\_protein\_VP1\_genomic\_RNA:1-19208

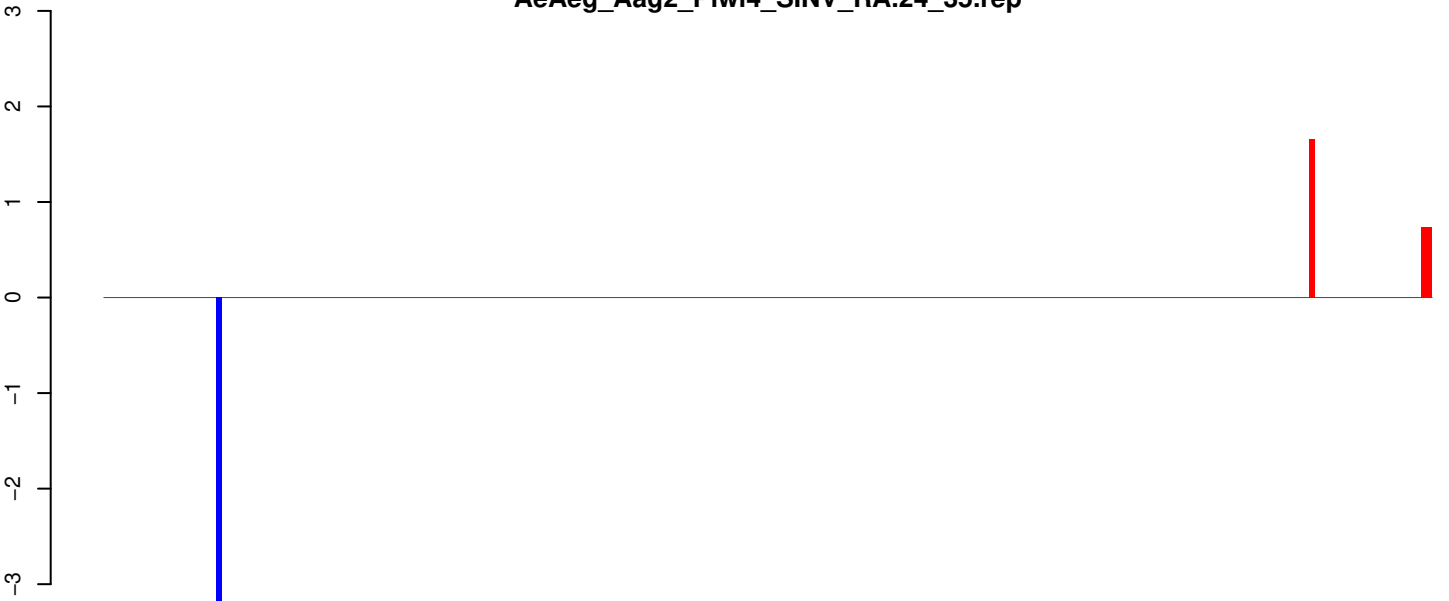


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



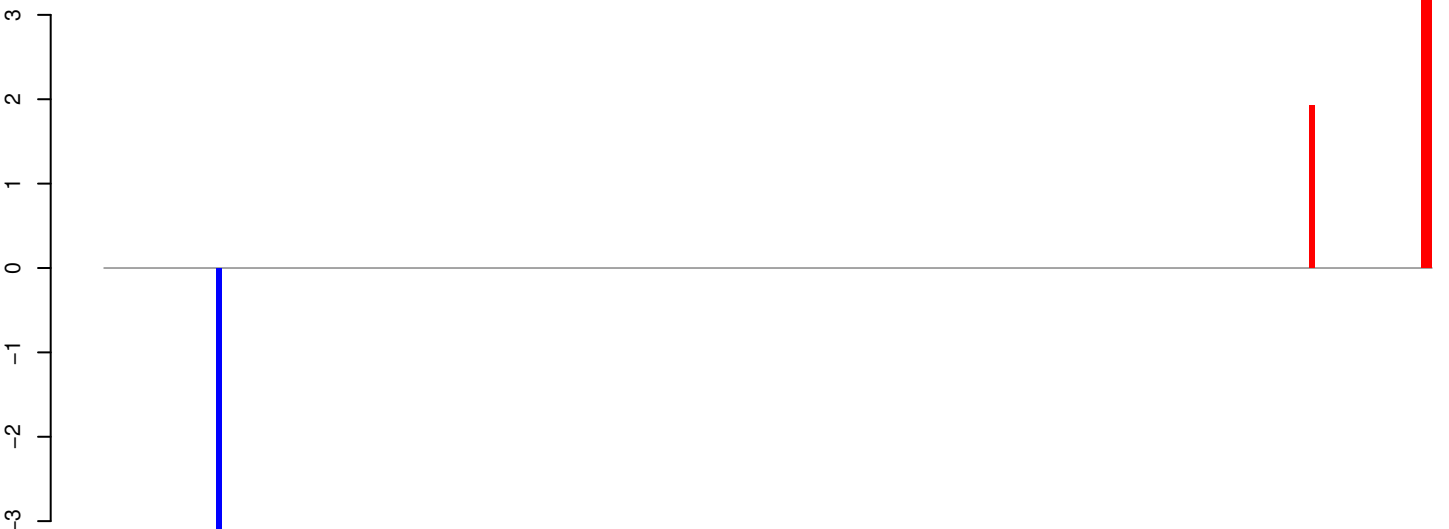
positive=6, negative=0, total=6

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



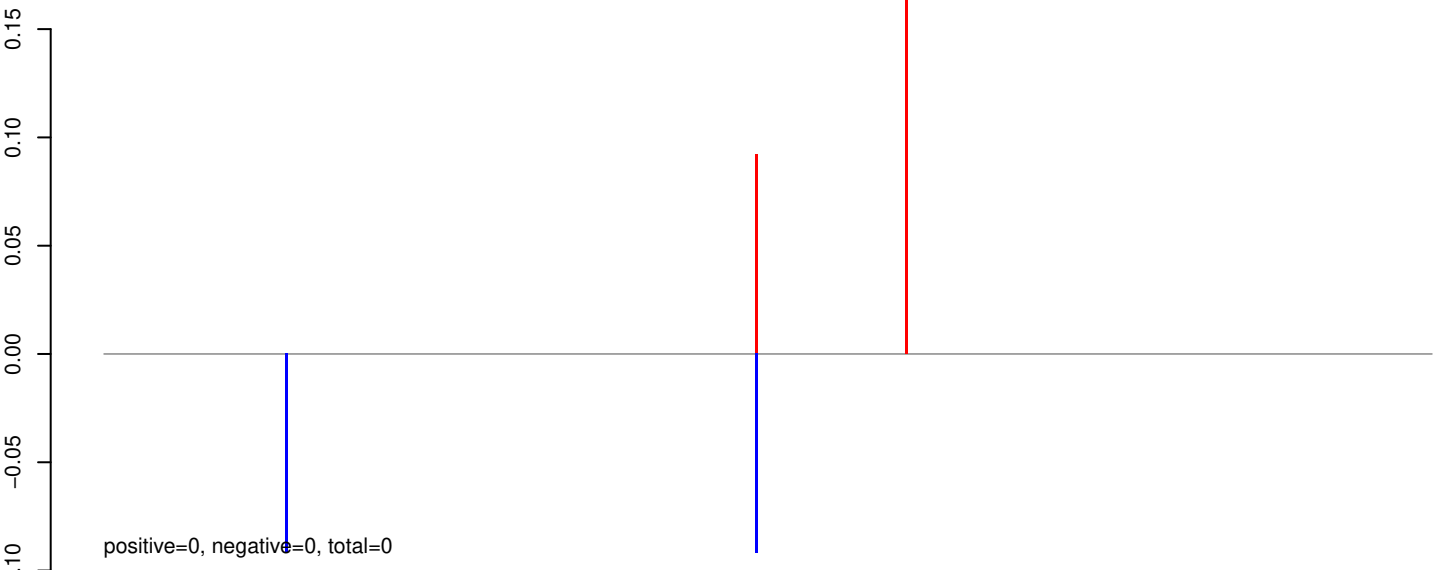
positive=3, negative=3, total=7

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

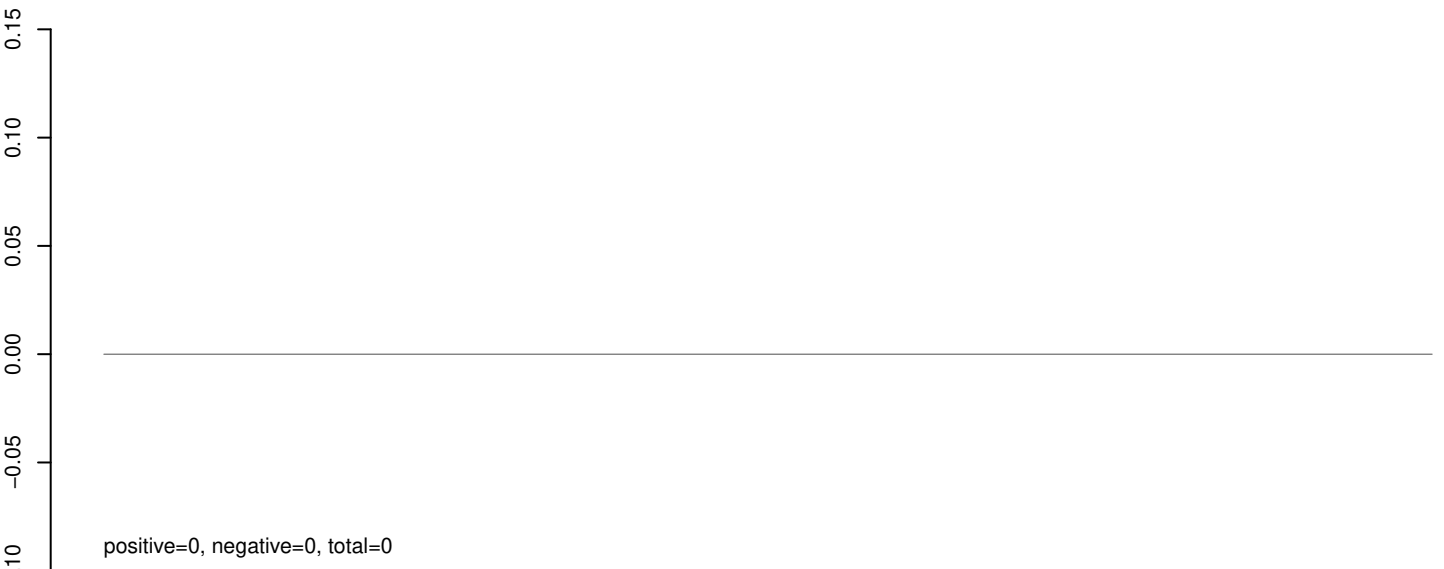


positive=9, negative=4, total=13, window size=25, length=6203, virus@NC\_035674.1-Australian\_Anopheles\_totivirus\_isolate\_AATV\_150840:1-6203

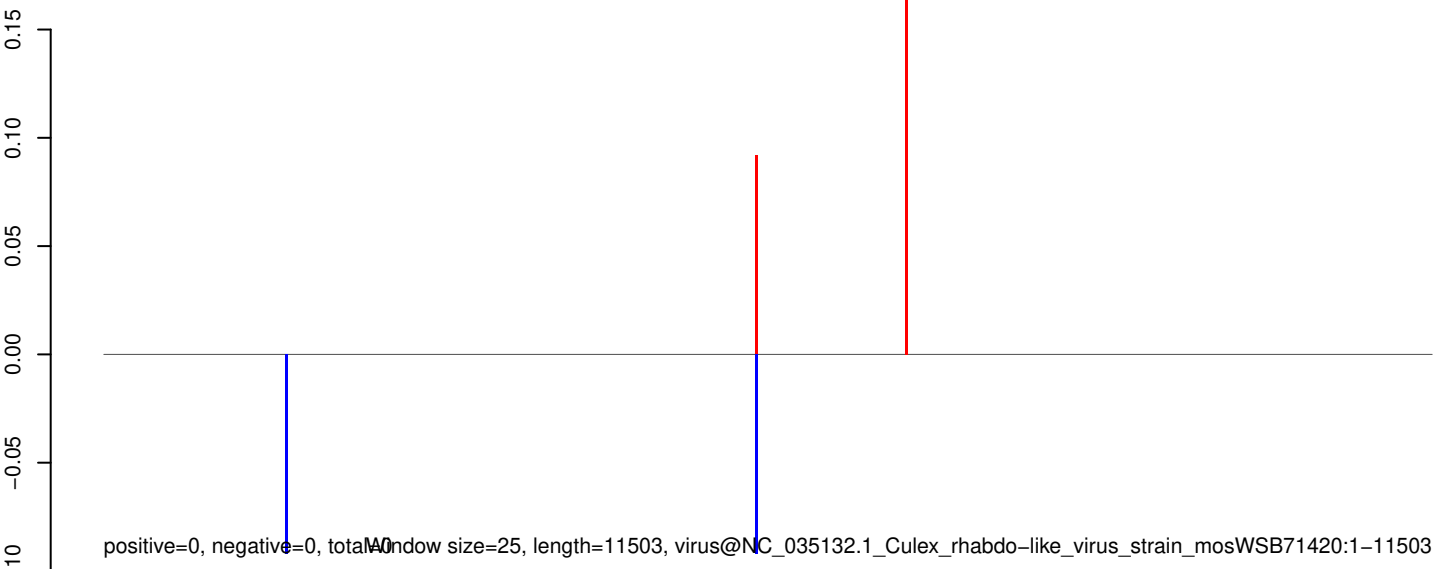
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



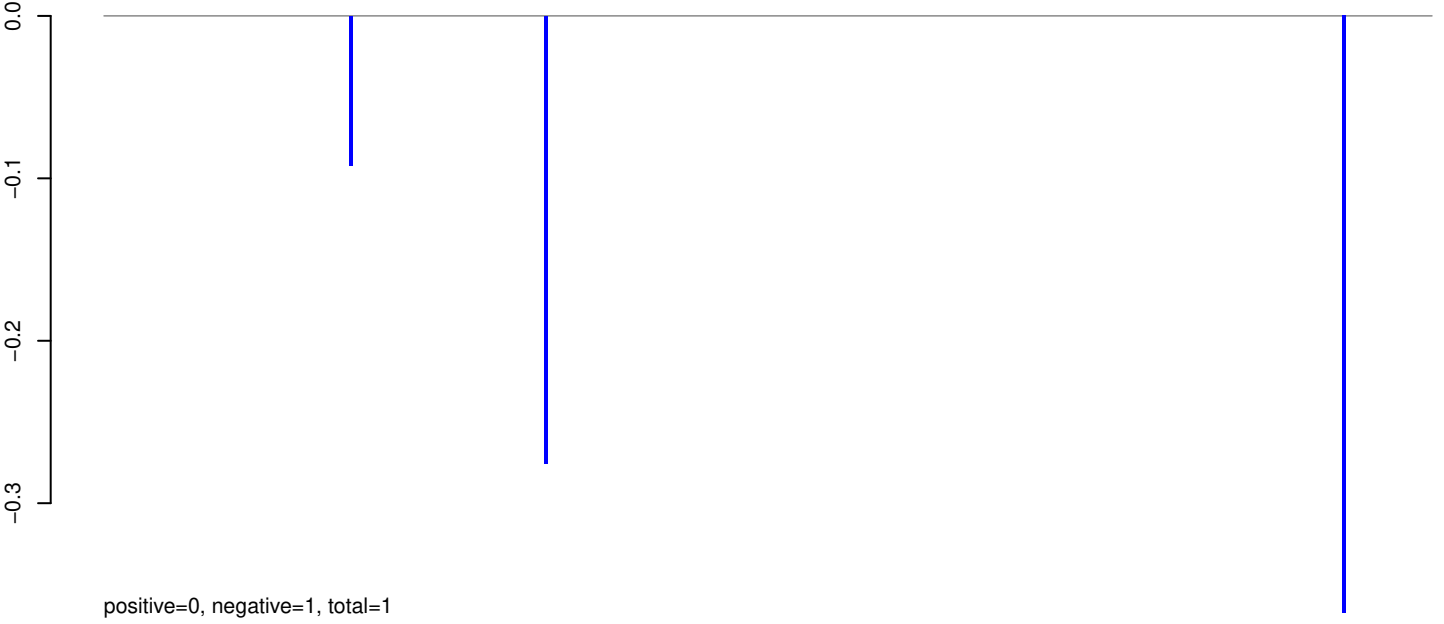
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



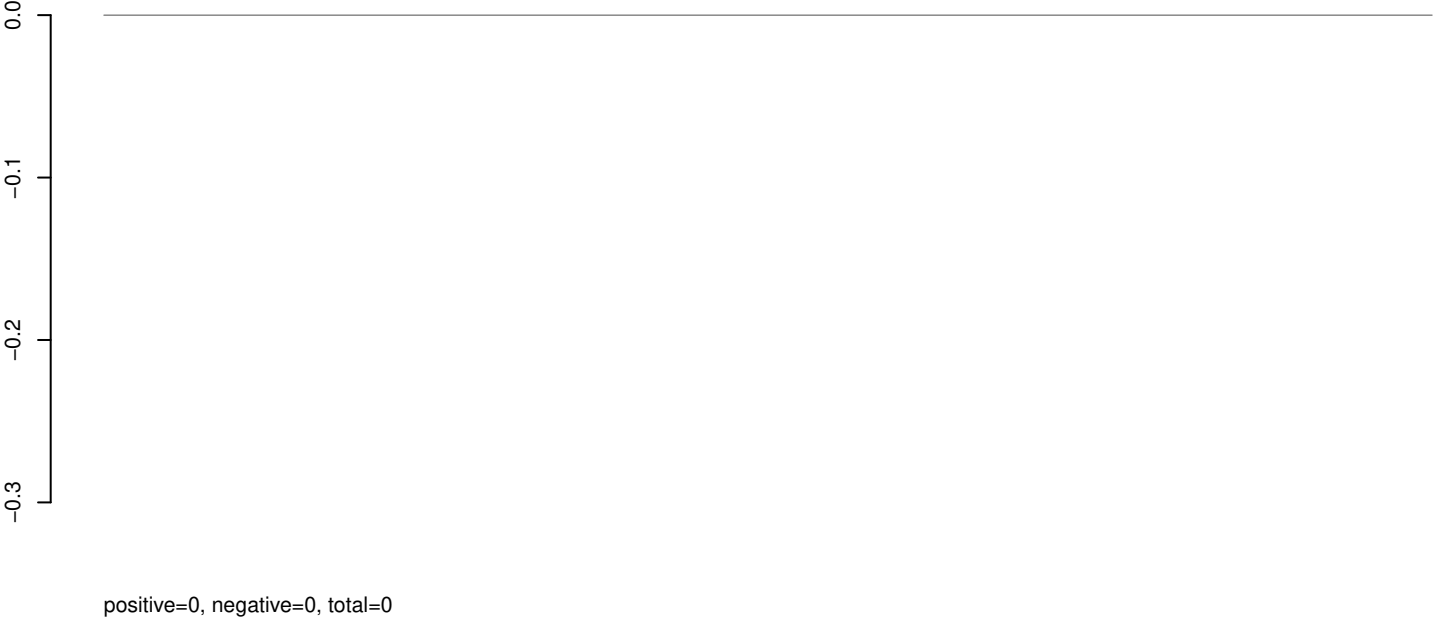
Window size=25, length=11503, virus@NC\_035132.1\_Culex\_rhabdo-like\_virus\_strain\_mosWSB71420:1-11503

0 2000 4000 6000 8000 10000 12000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



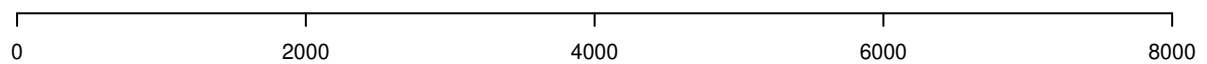
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



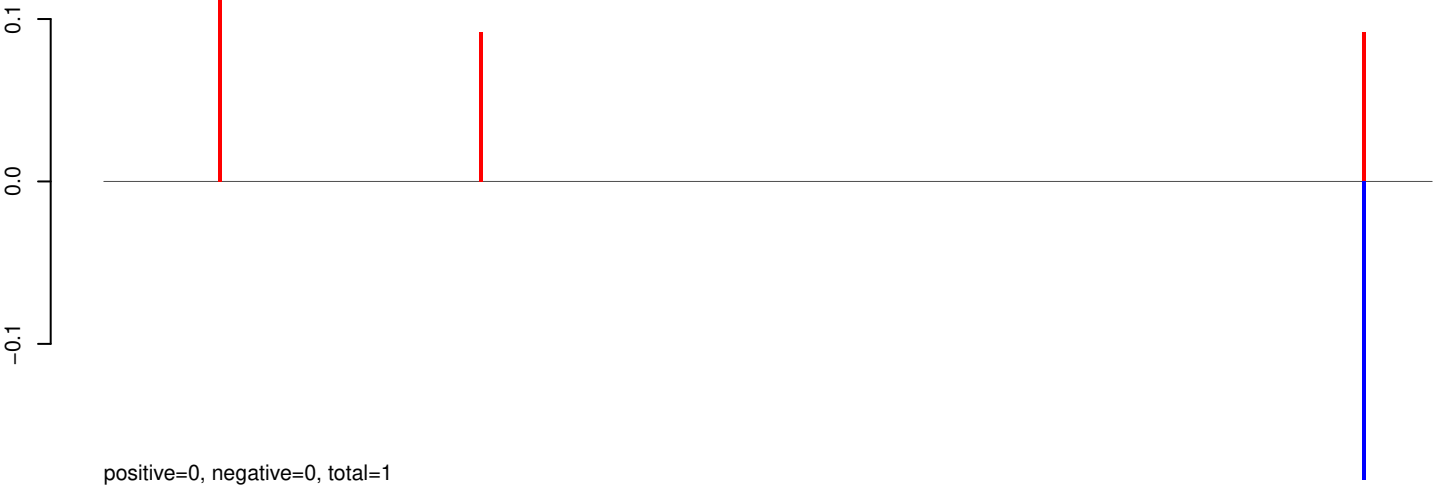
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



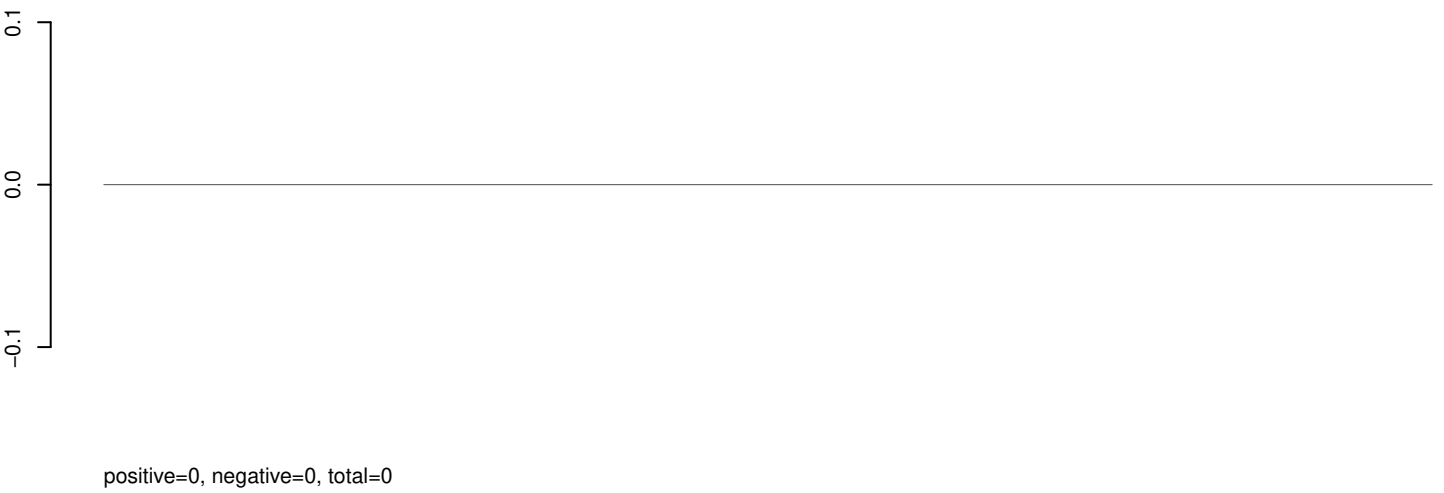
Window size=25, length=9176, virus@NC\_035129.1\_Culex\_negev-like\_virus\_3\_strain\_mos172X44875:1-9176



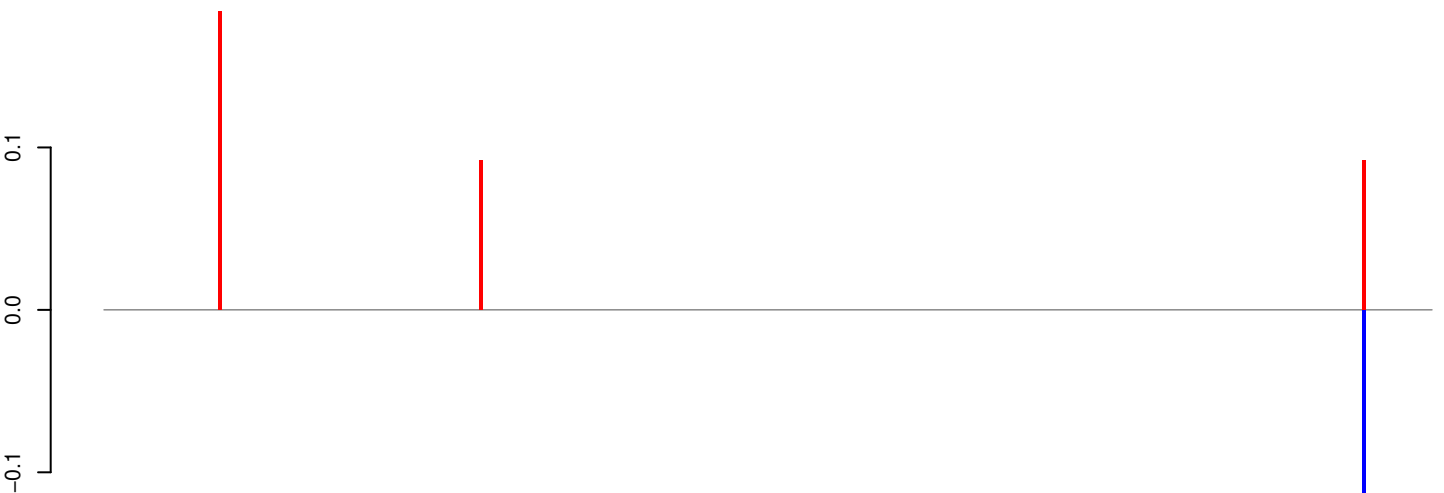
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



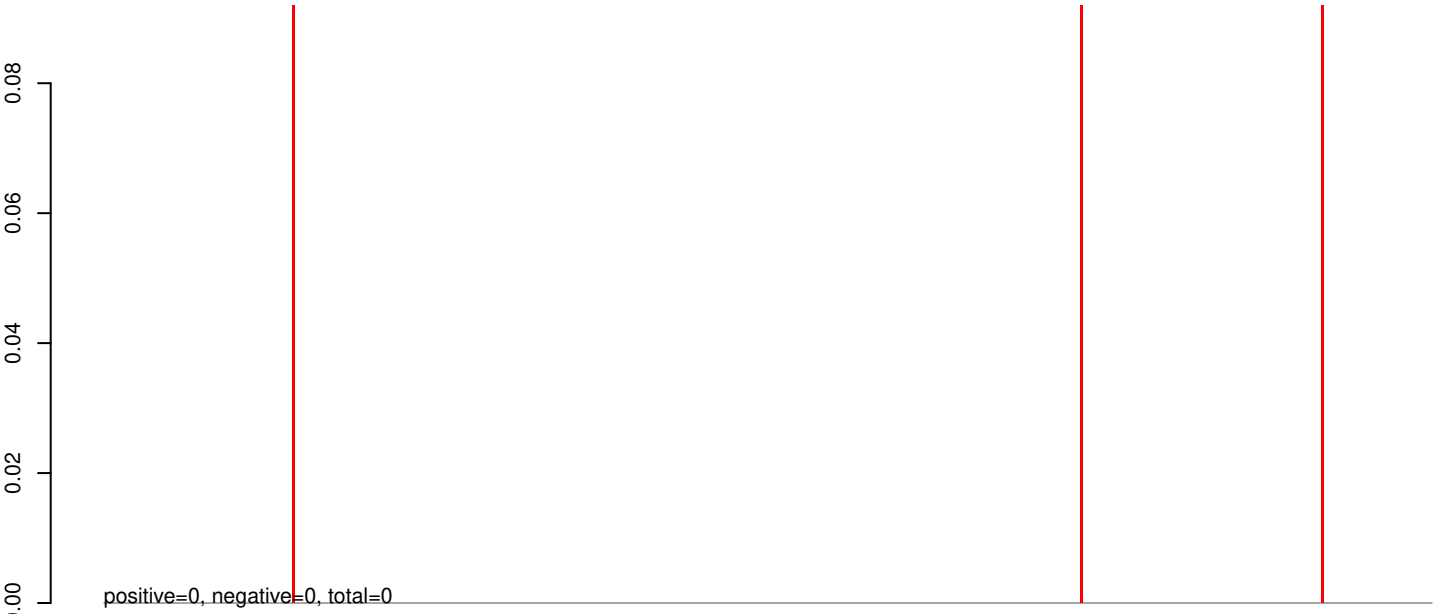
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



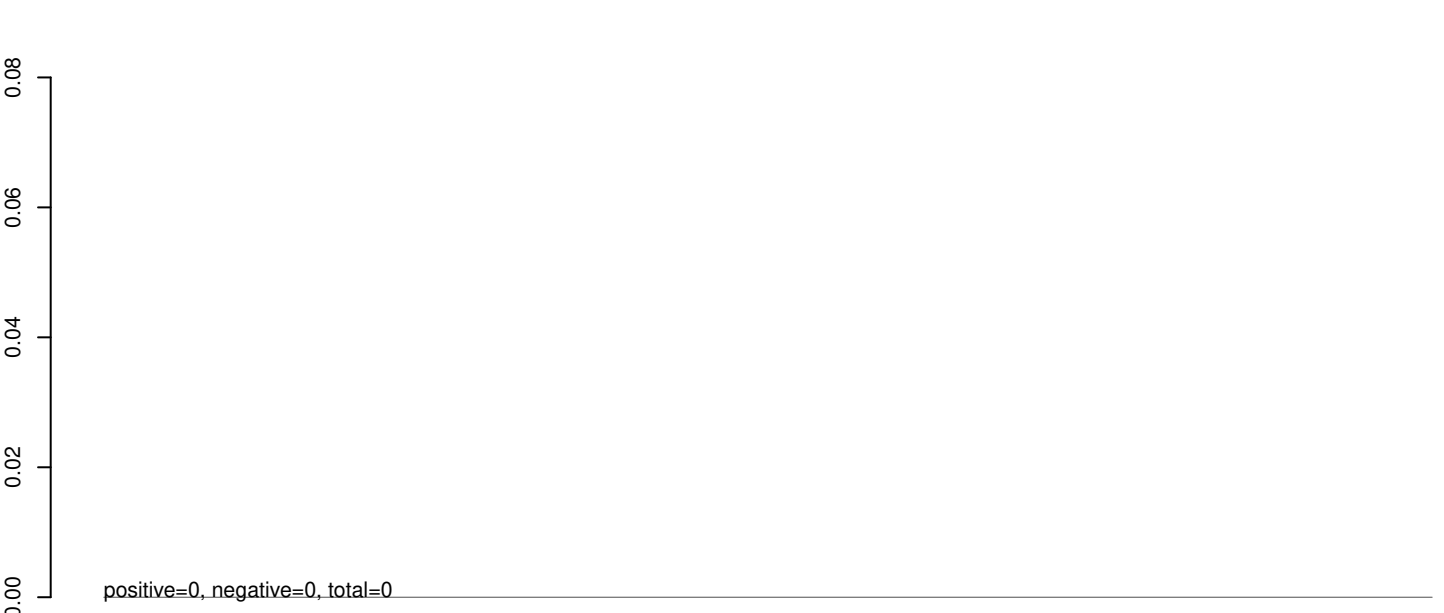
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



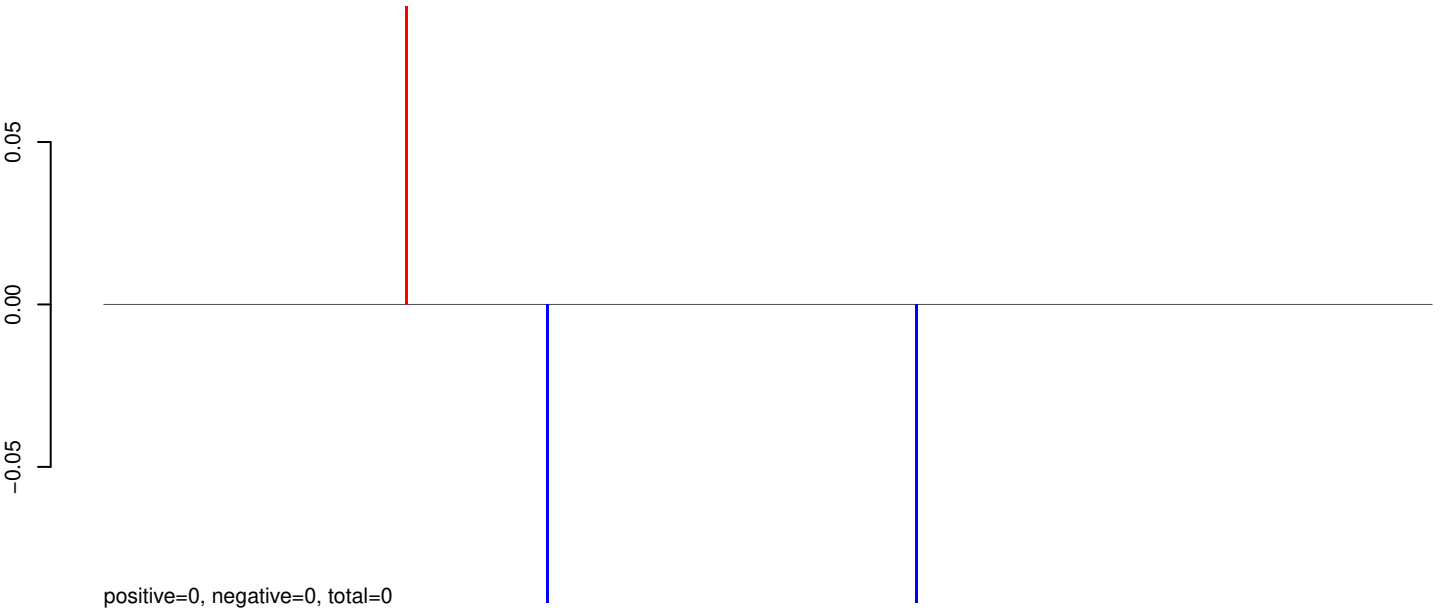
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



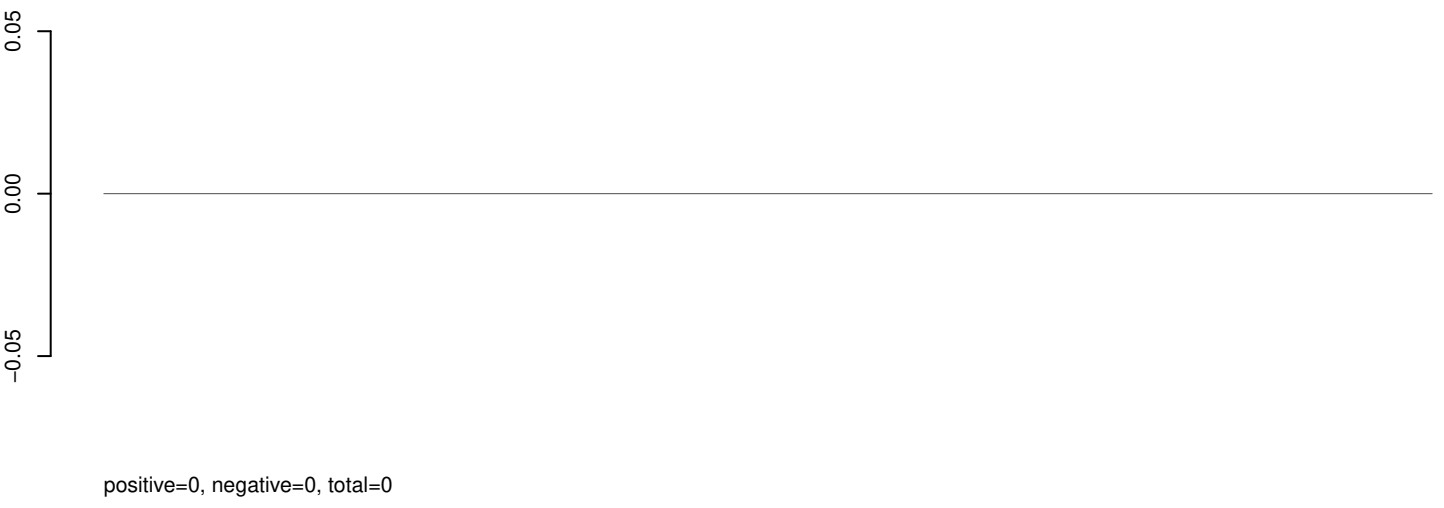
0 2000 4000 6000 8000 10000 12000  
NC\_034450.1-Kamese\_virus\_nucleoprotein\_phosphoprotein\_hypothetical\_proteins\_matrix\_glycoprotein:1-13209



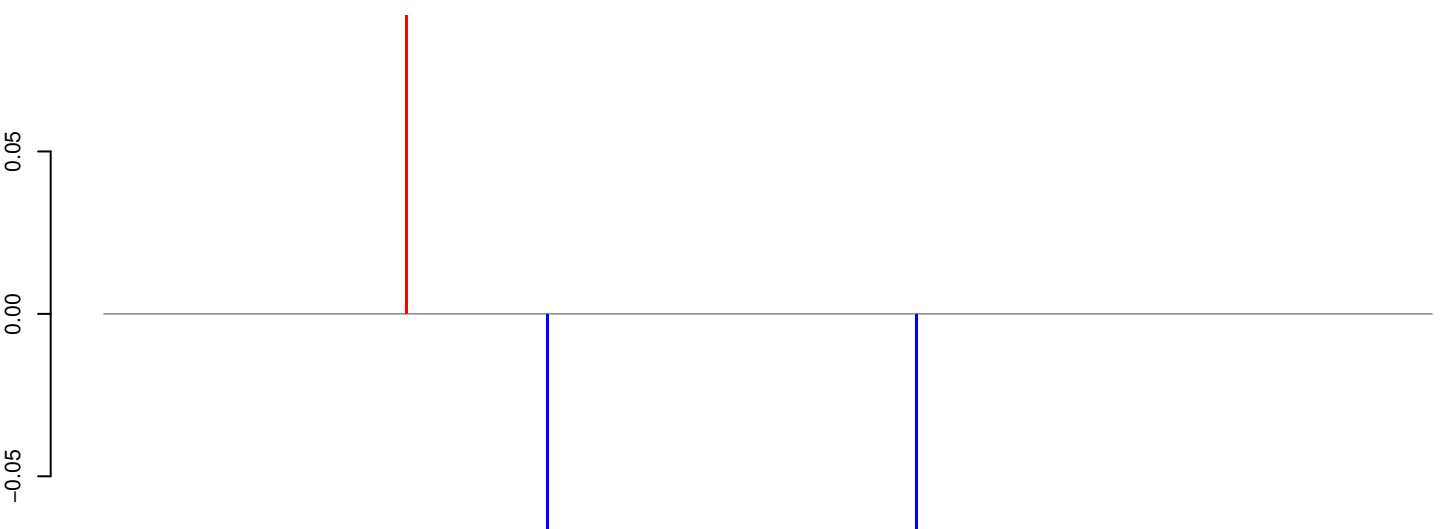
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



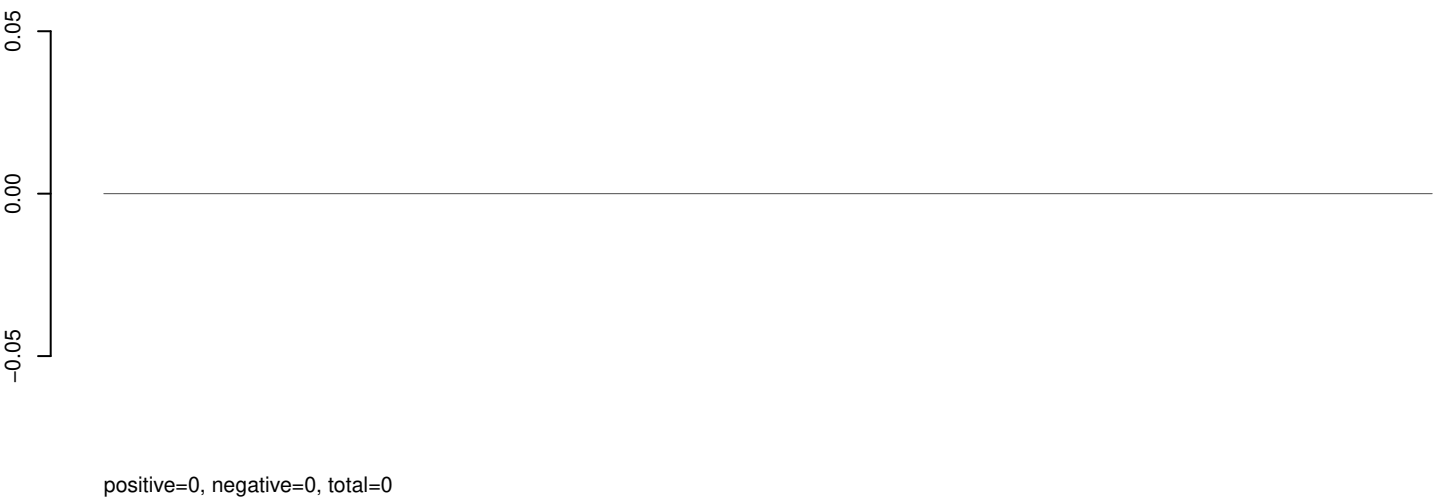
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



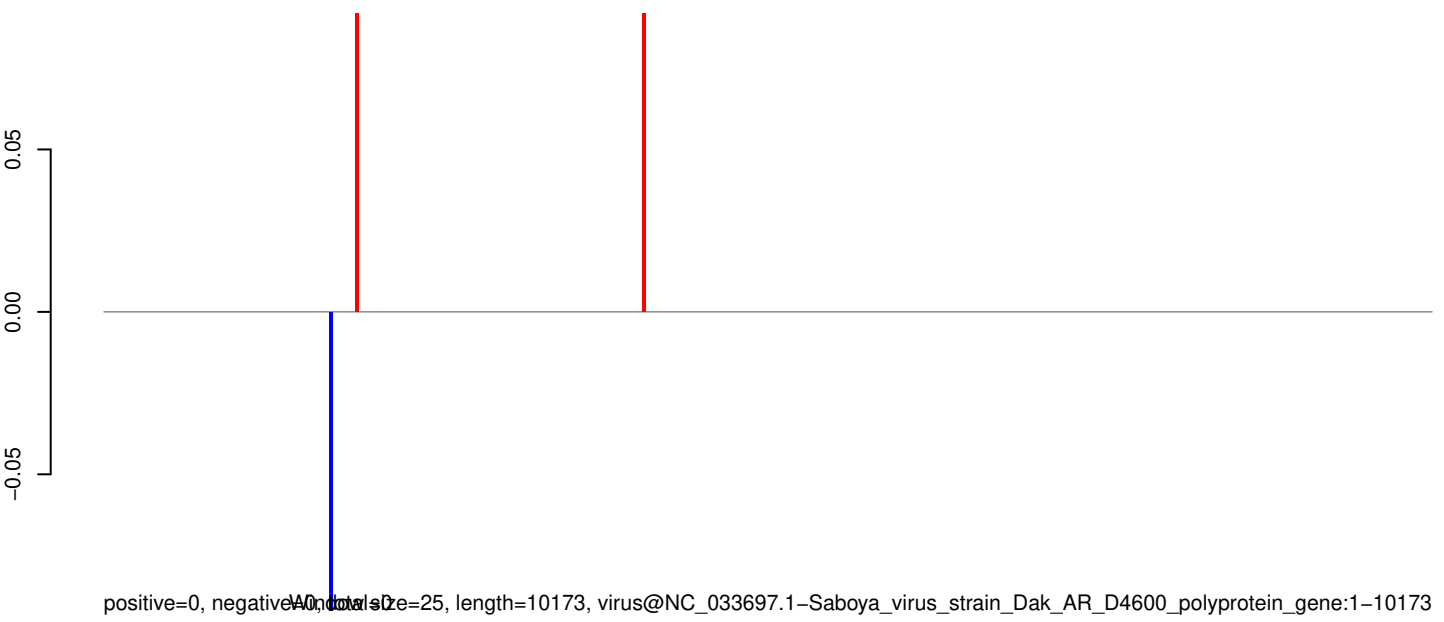
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

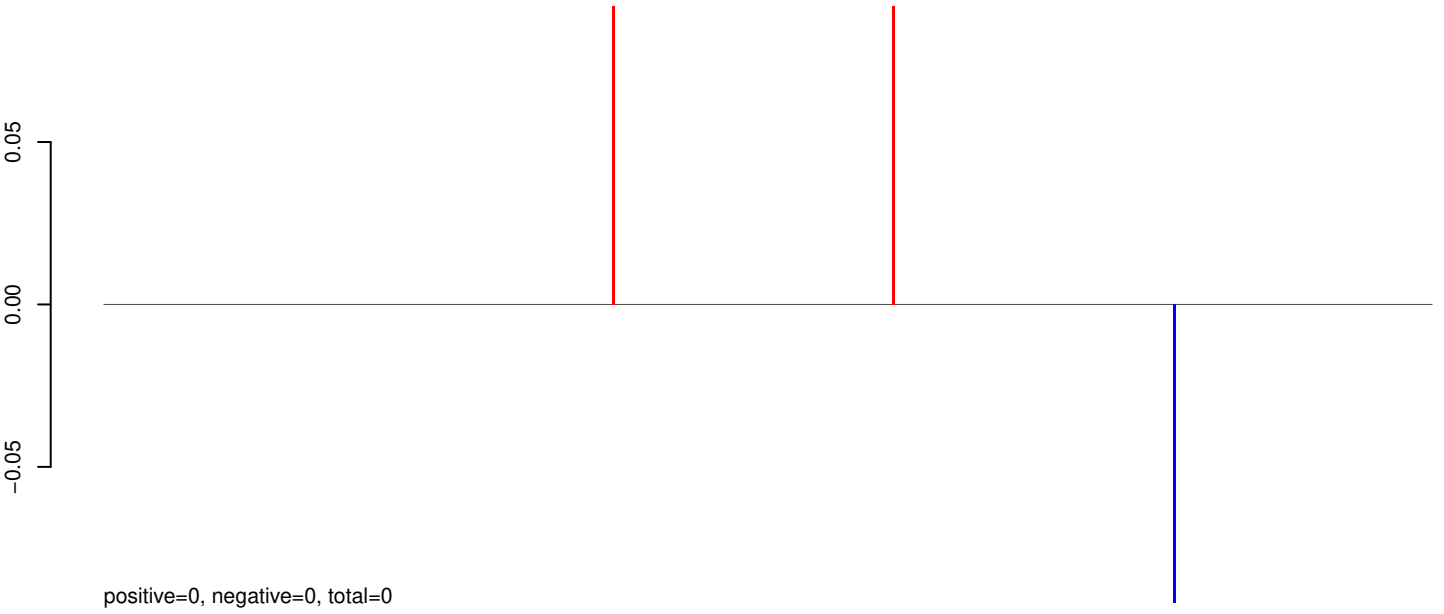


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

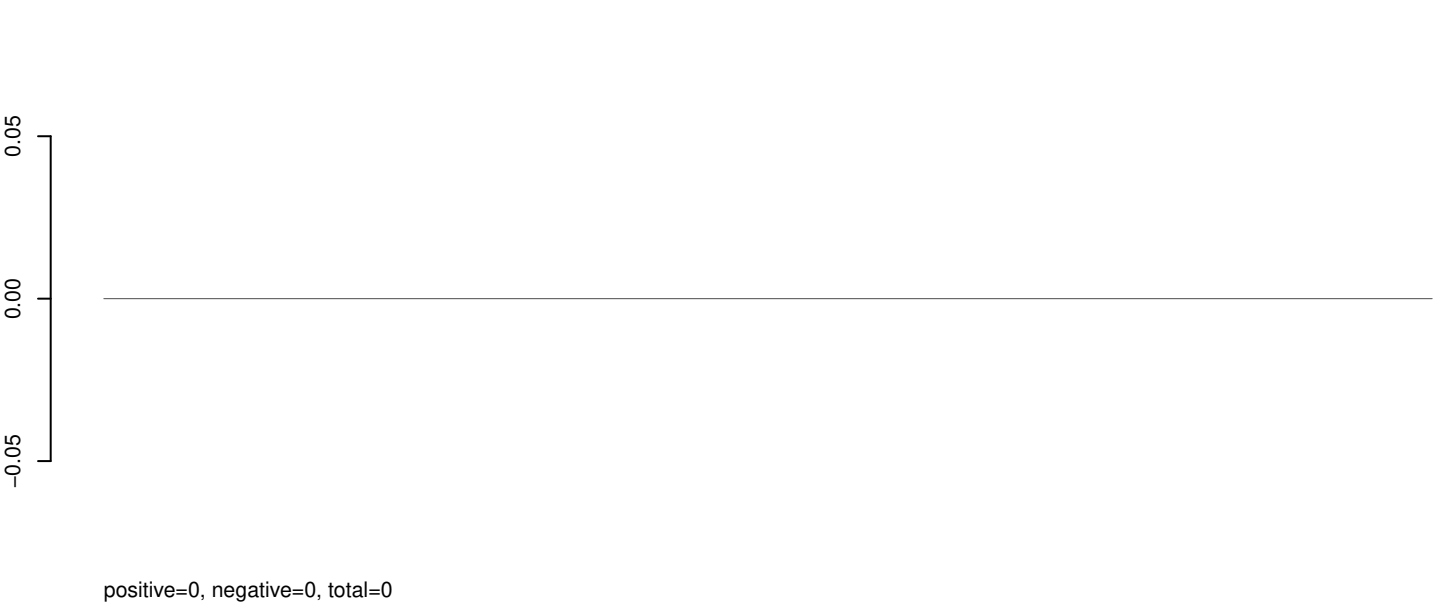


0 2000 4000 6000 8000 10000

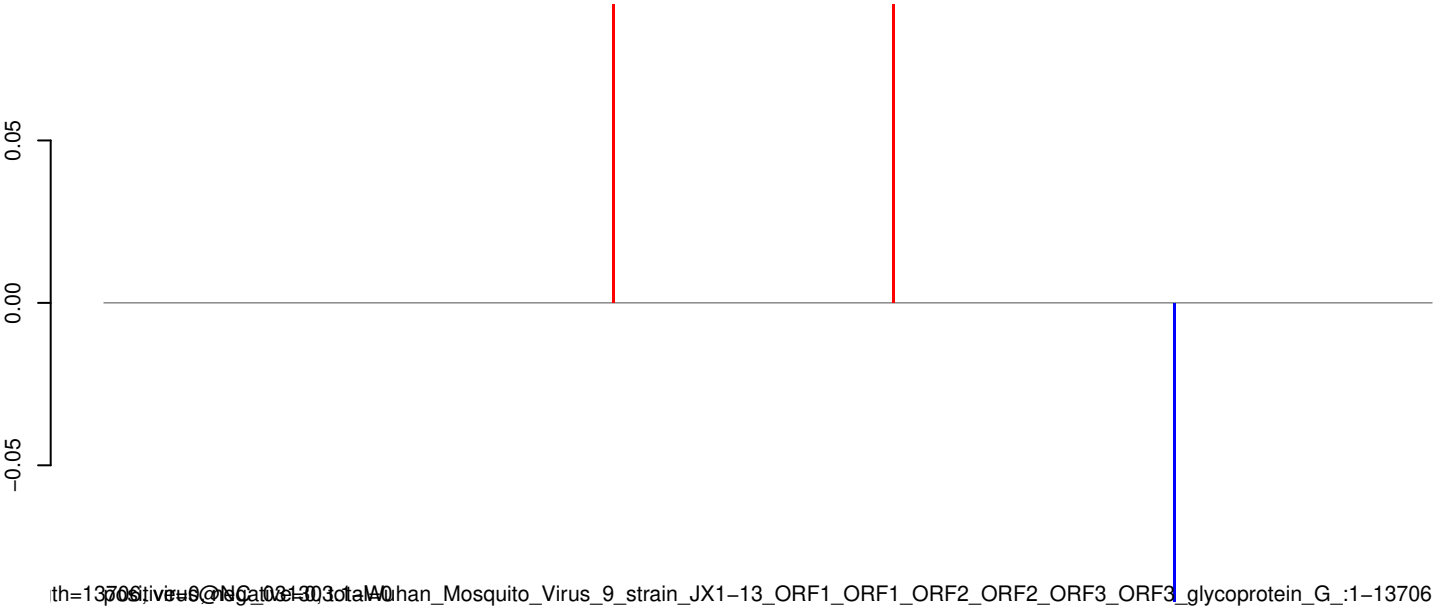
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



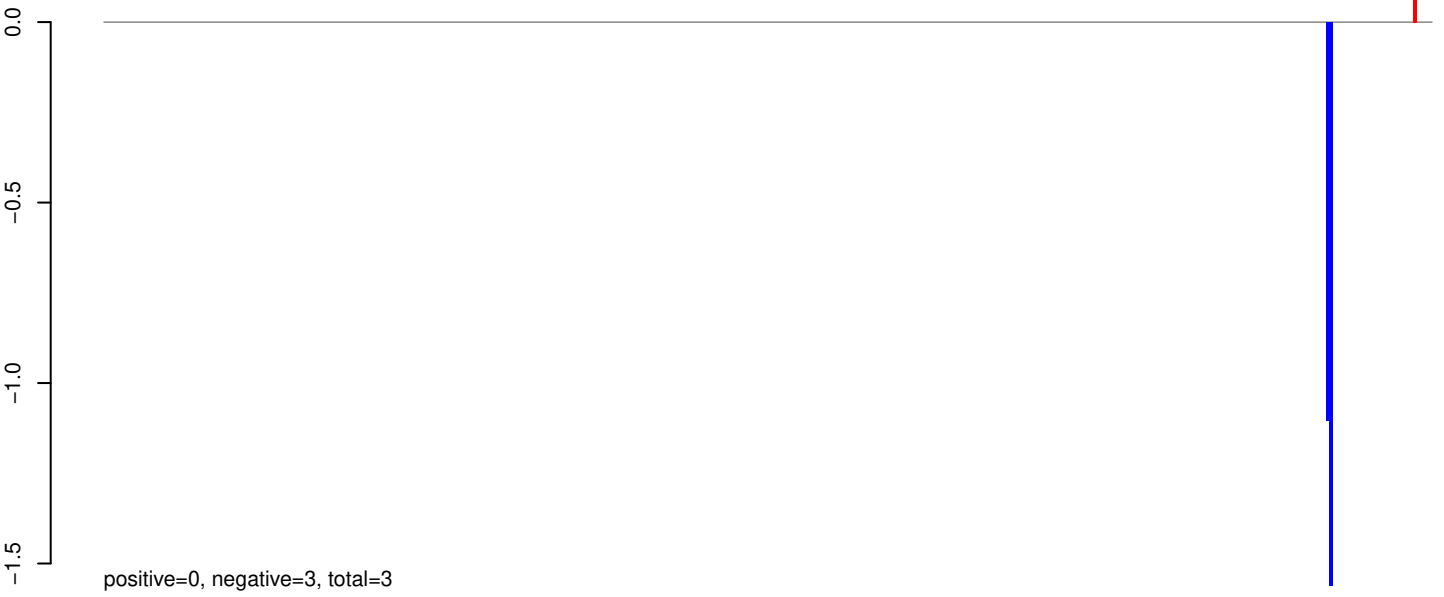
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



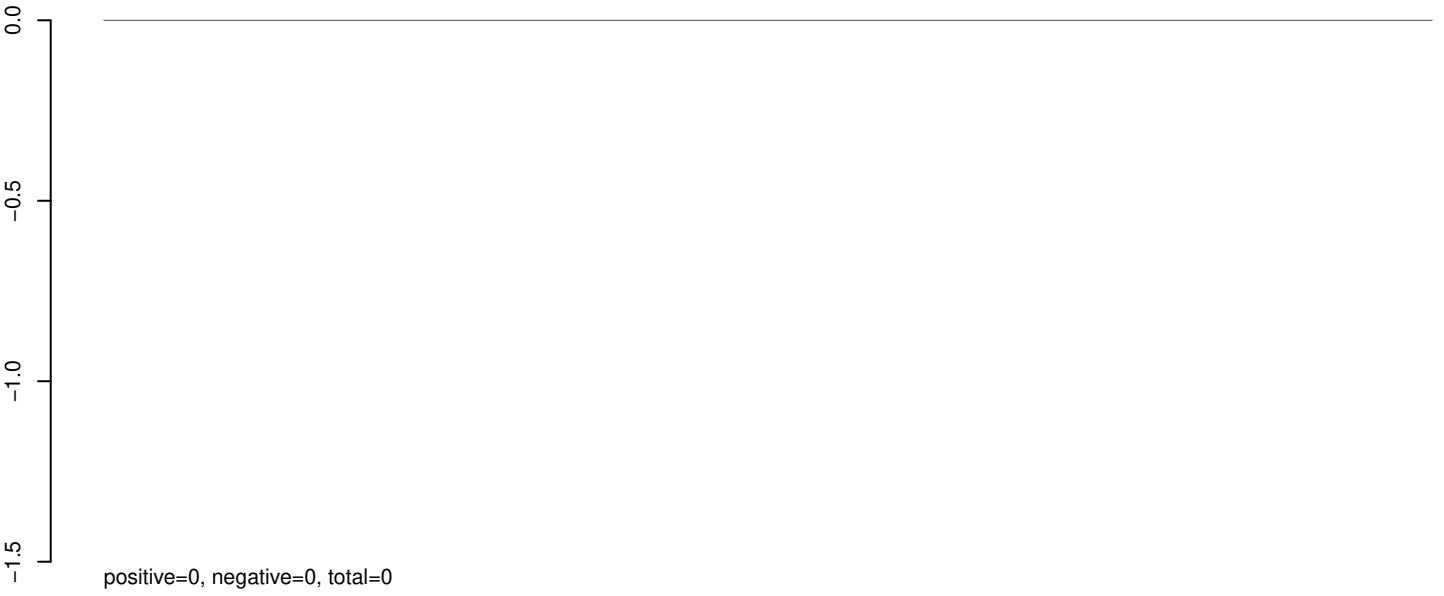
th=13706, virus=Oligo13706, total=0, Han\_Mosquito\_Virus\_9\_strain\_JX1-13\_ORF1\_ORF1\_ORF2\_ORF2\_ORF3\_ORF3\_glycoprotein\_G\_:1-13706

0 2000 4000 6000 8000 10000 12000 14000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



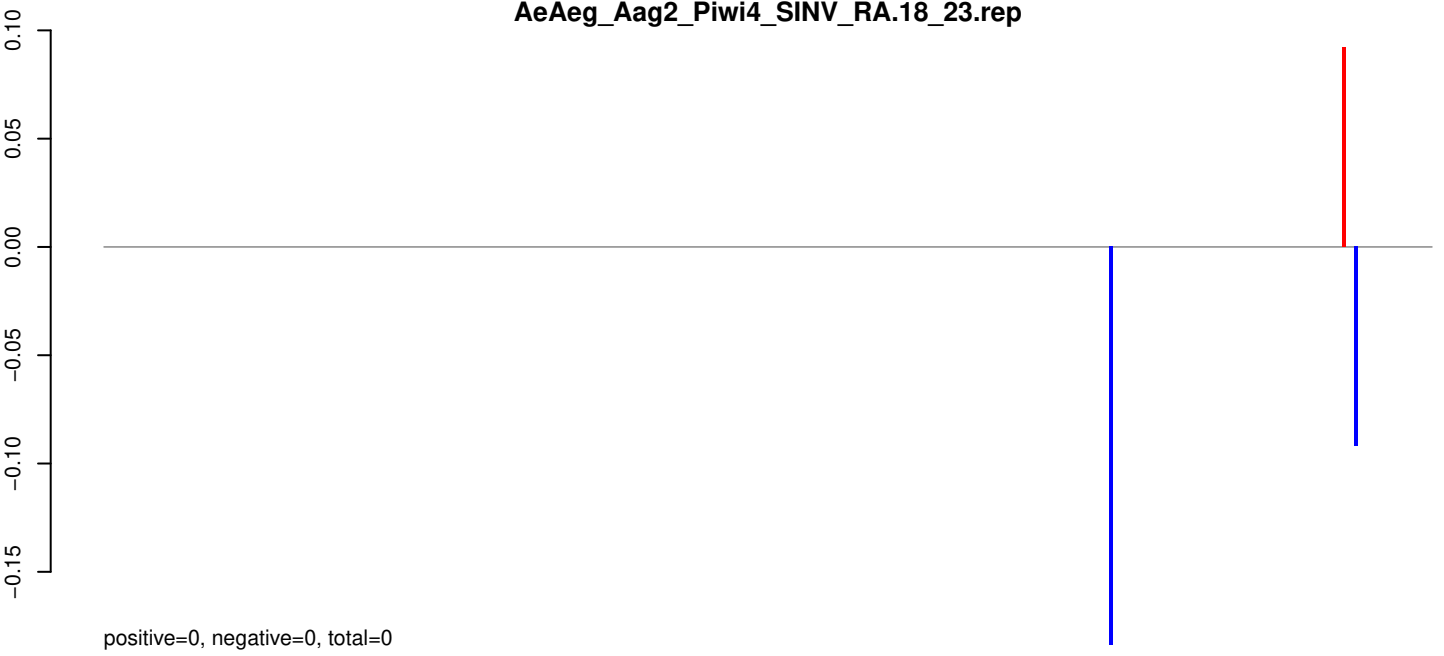
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



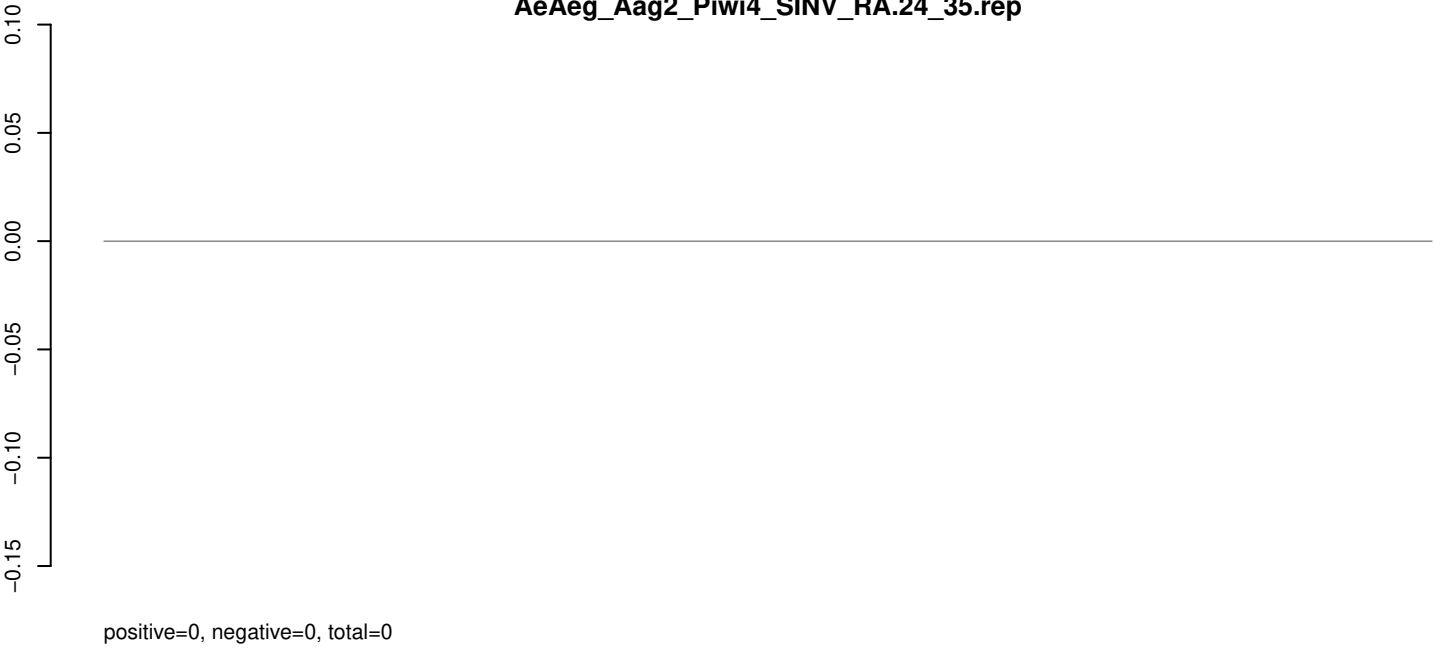
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



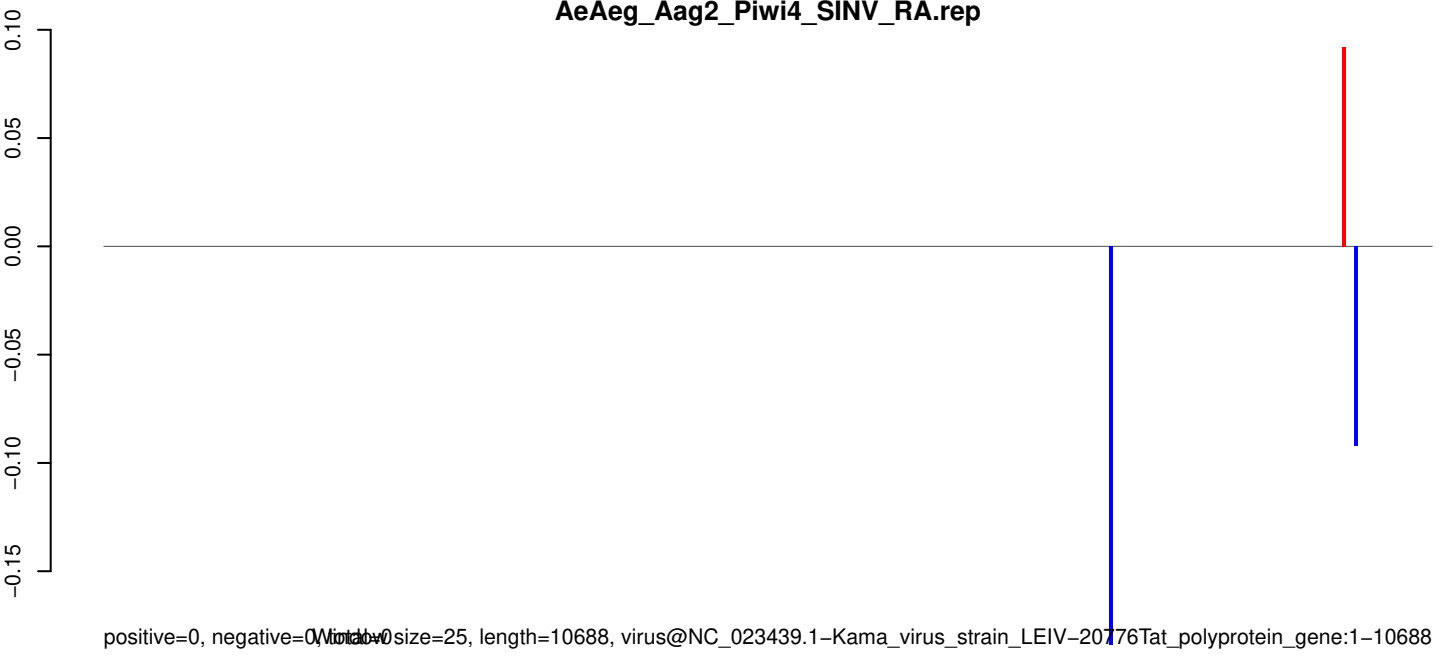
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



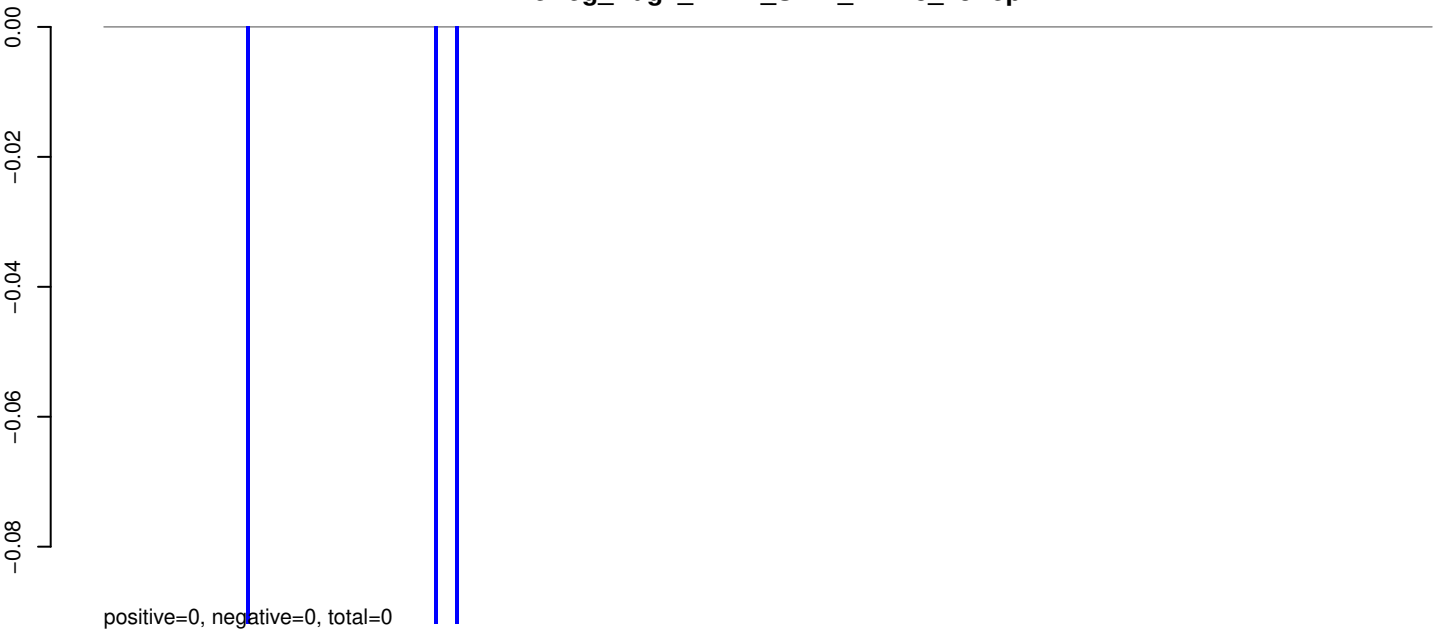
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



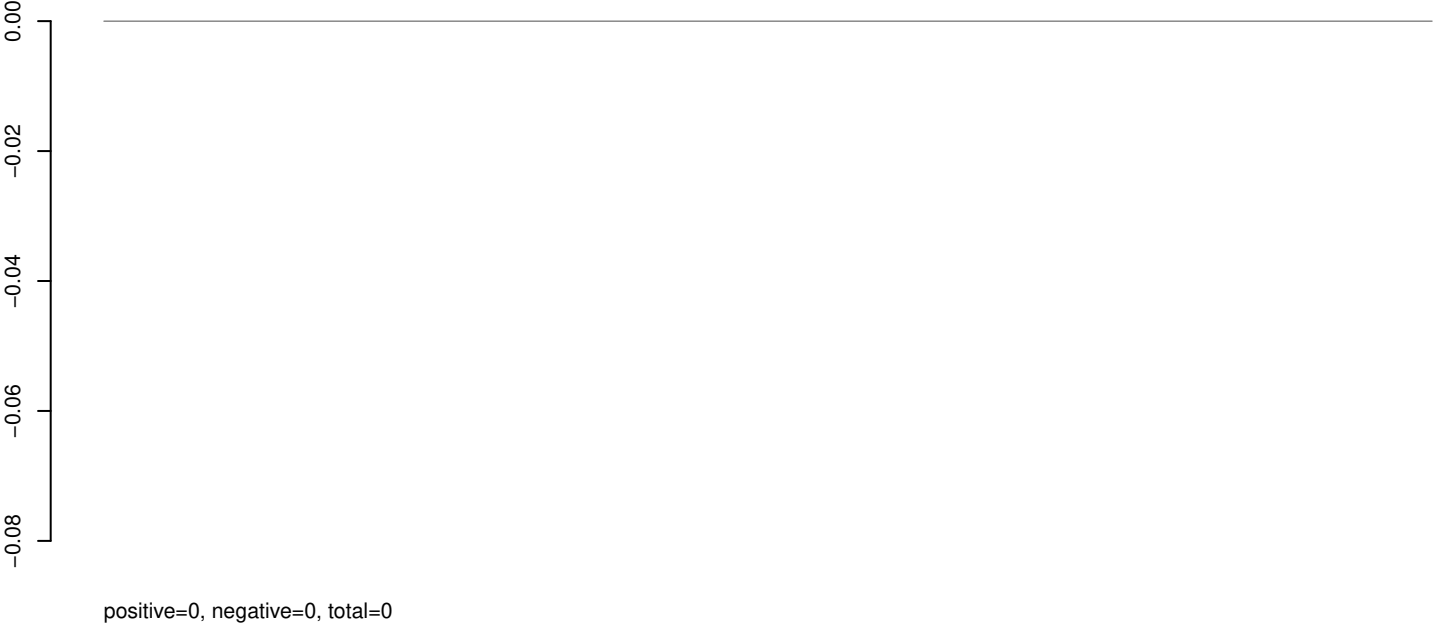
Wnt1b size=25, length=10688, virus@NC\_023439.1-Kama\_virus\_strain\_LEIV-201776Tat\_polyprotein\_gene:1-10688

0 2000 4000 6000 8000 10000

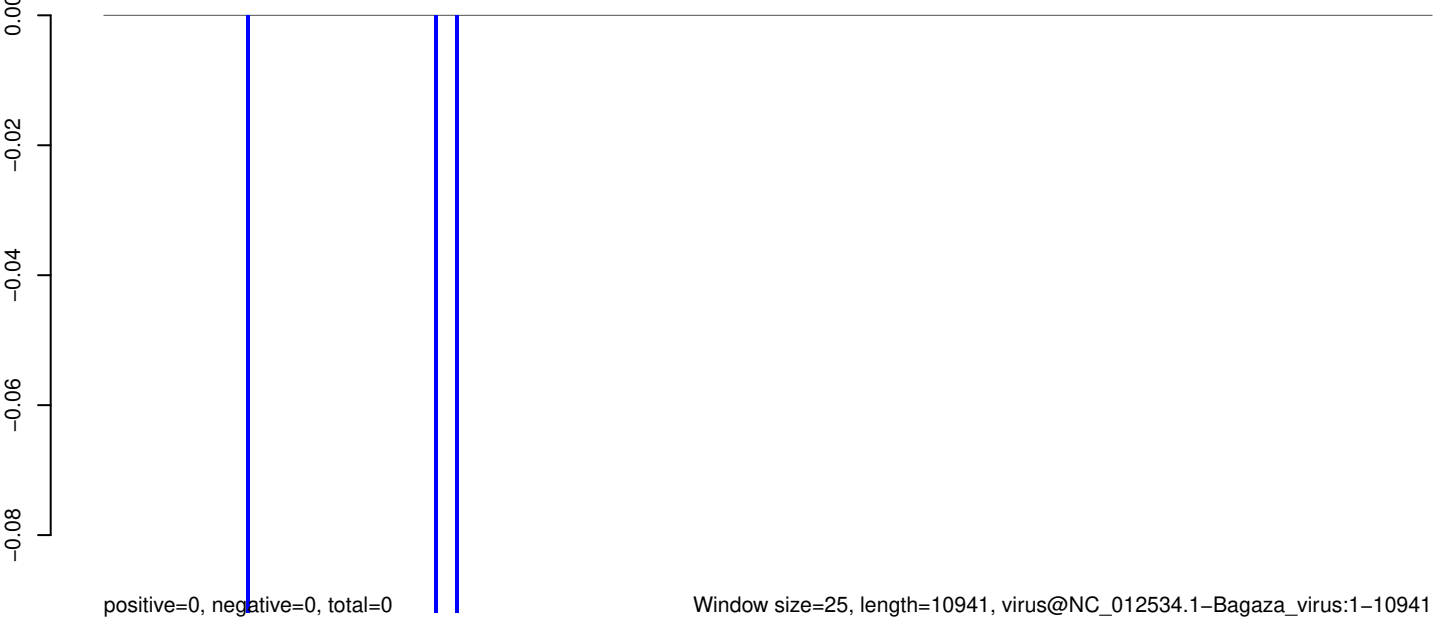
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

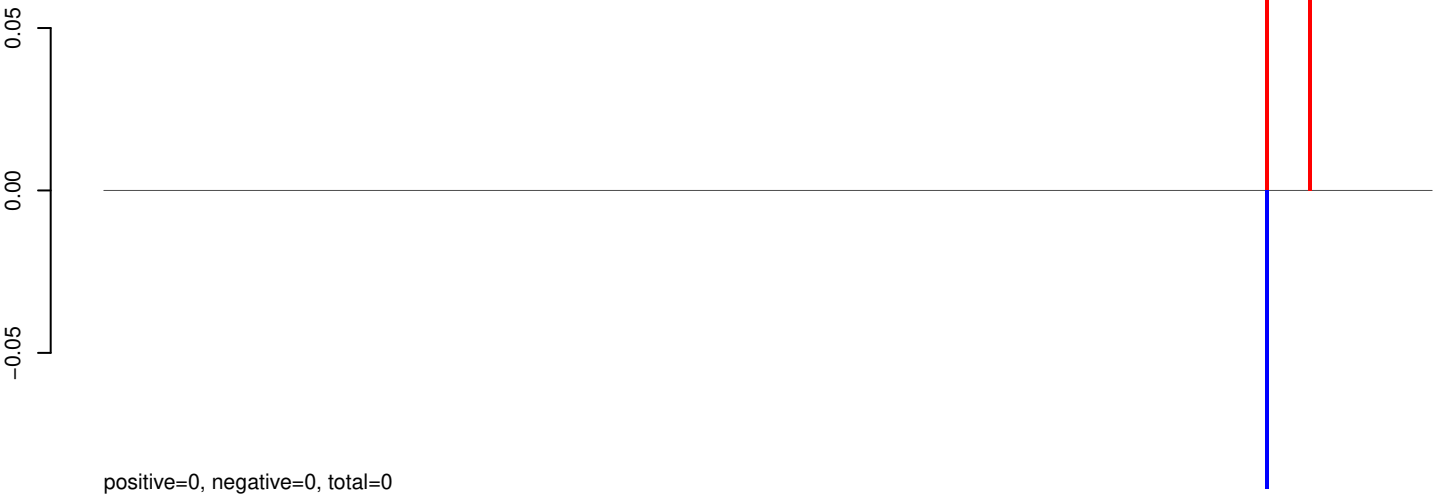


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

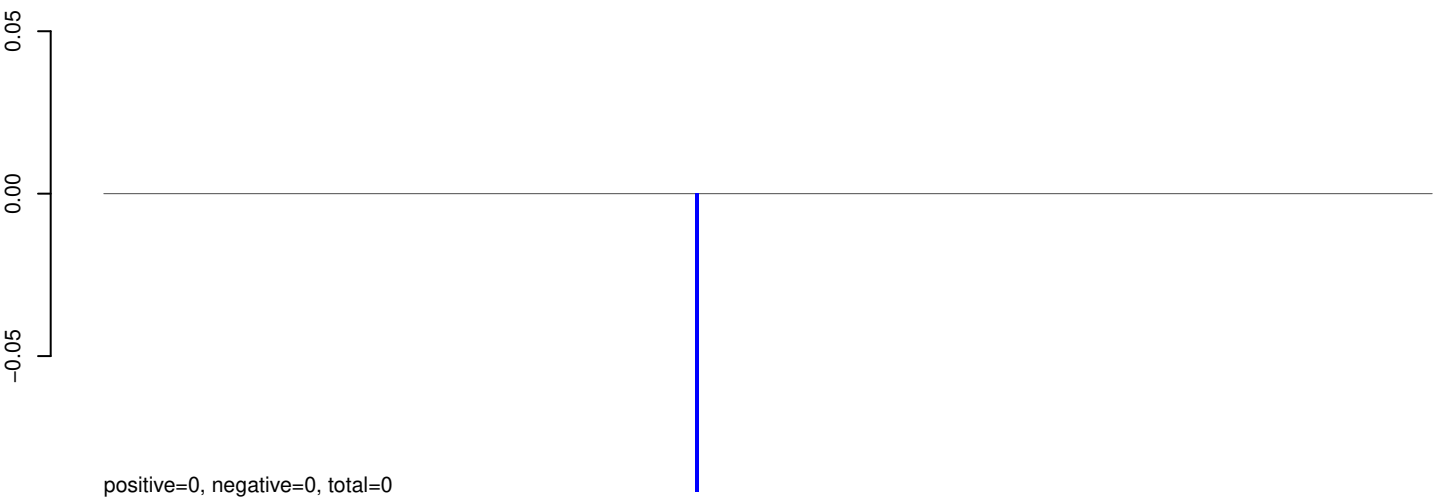


0 2000 4000 6000 8000 10000

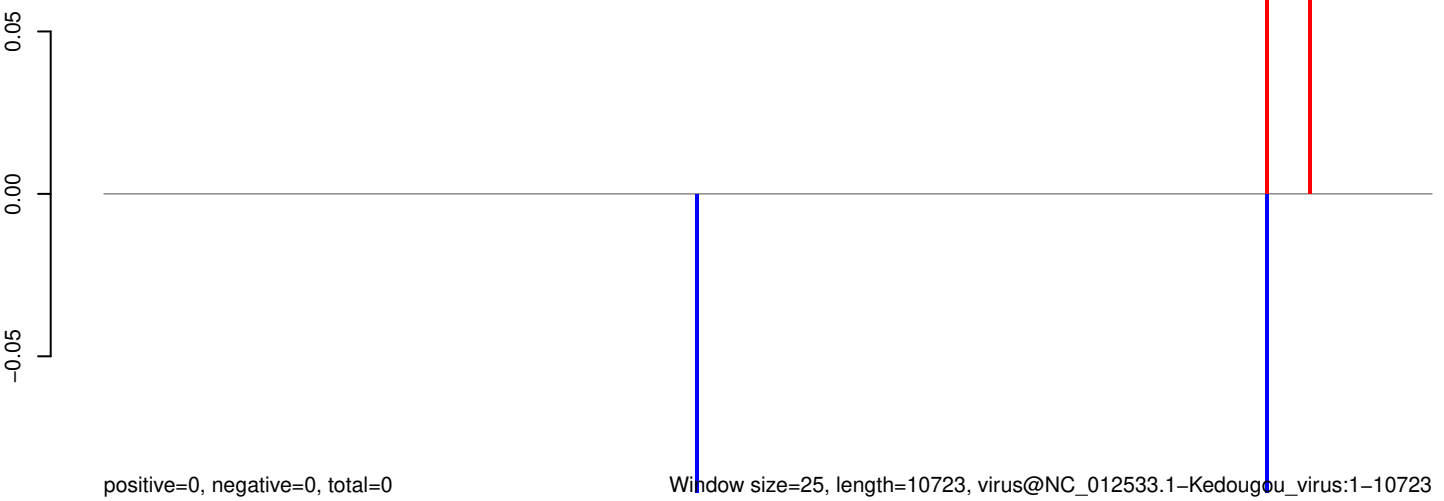
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

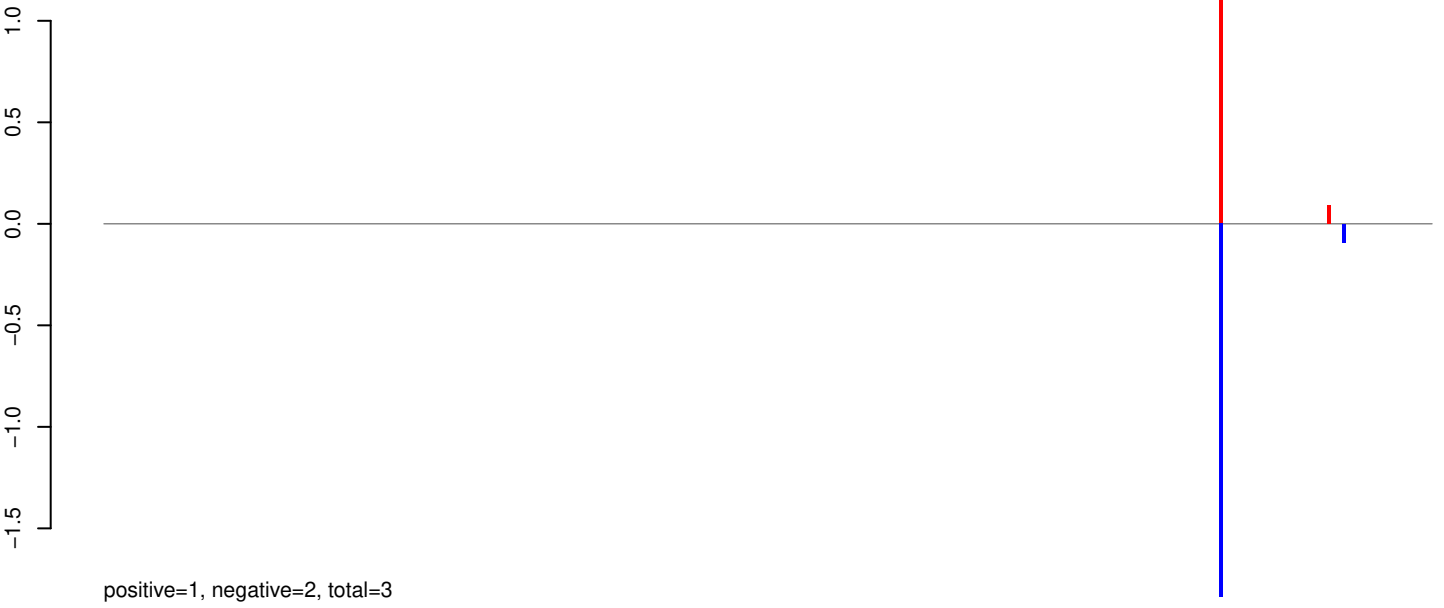


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



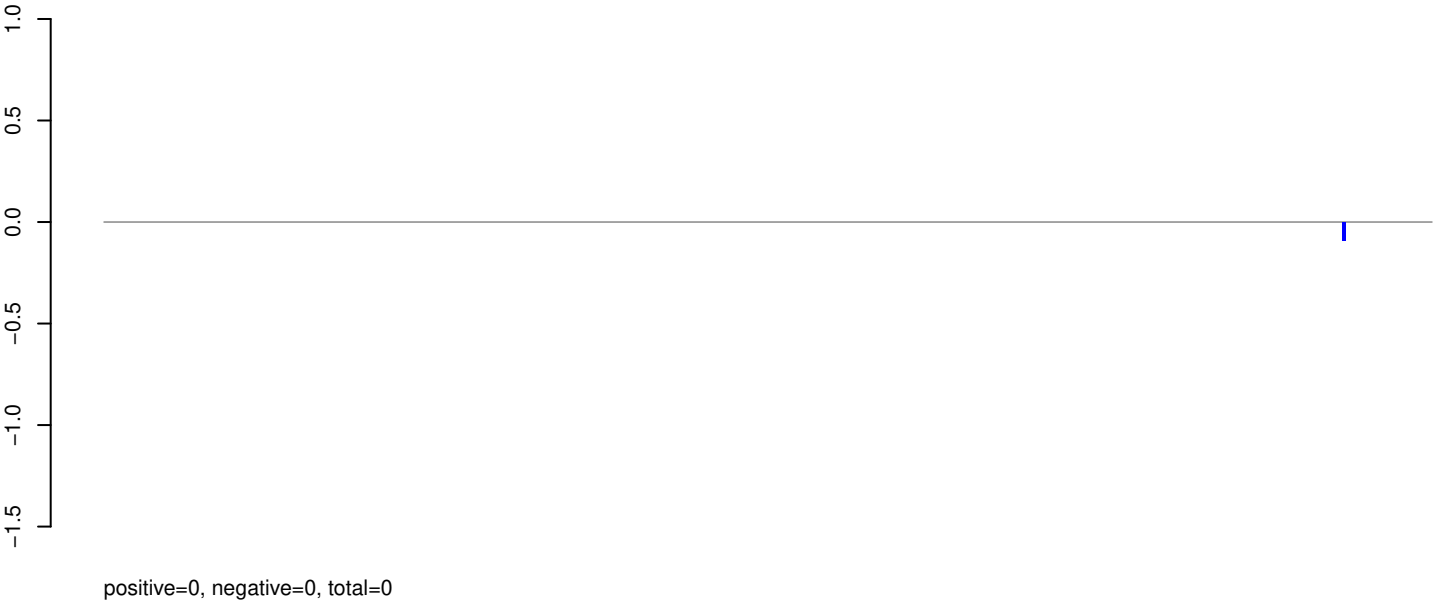
0 2000 4000 6000 8000 10000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



positive=1, negative=2, total=3

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



positive=0, negative=0, total=0

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



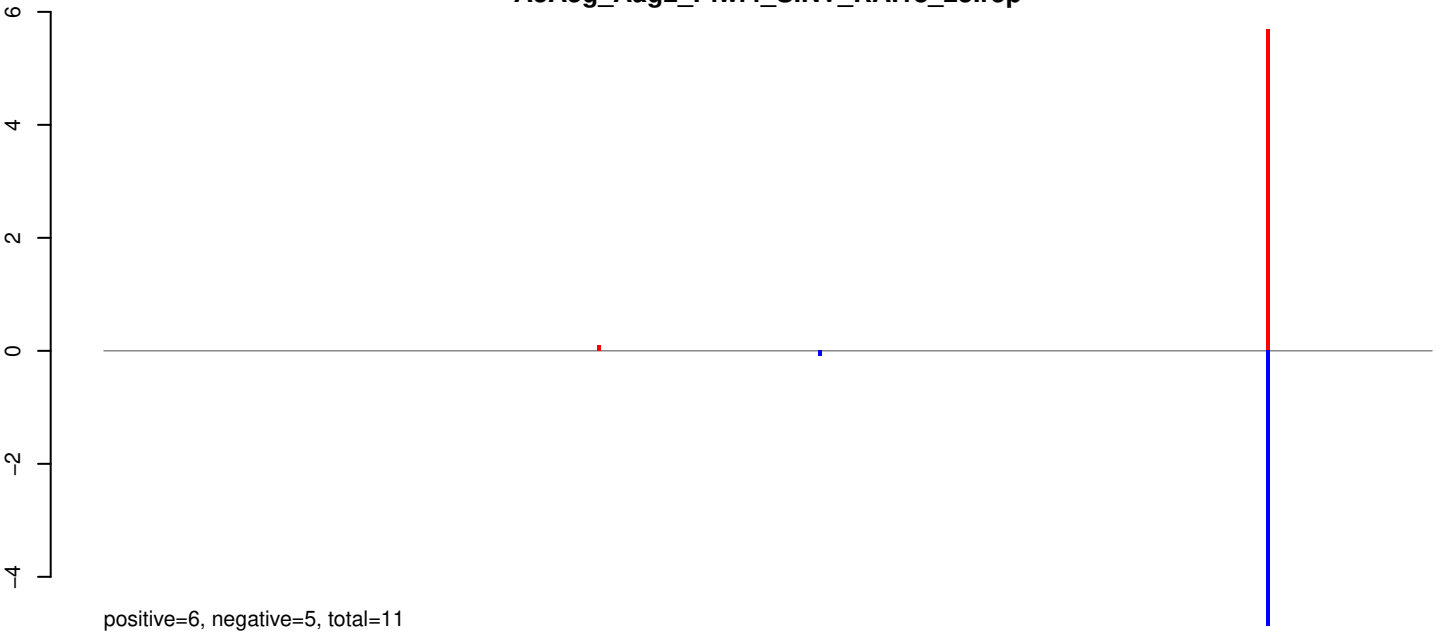
positive=1, negative=2, total=3

Window size=25, length=10755, virus@NC\_009028.2-Ilheus\_virus:1-10755

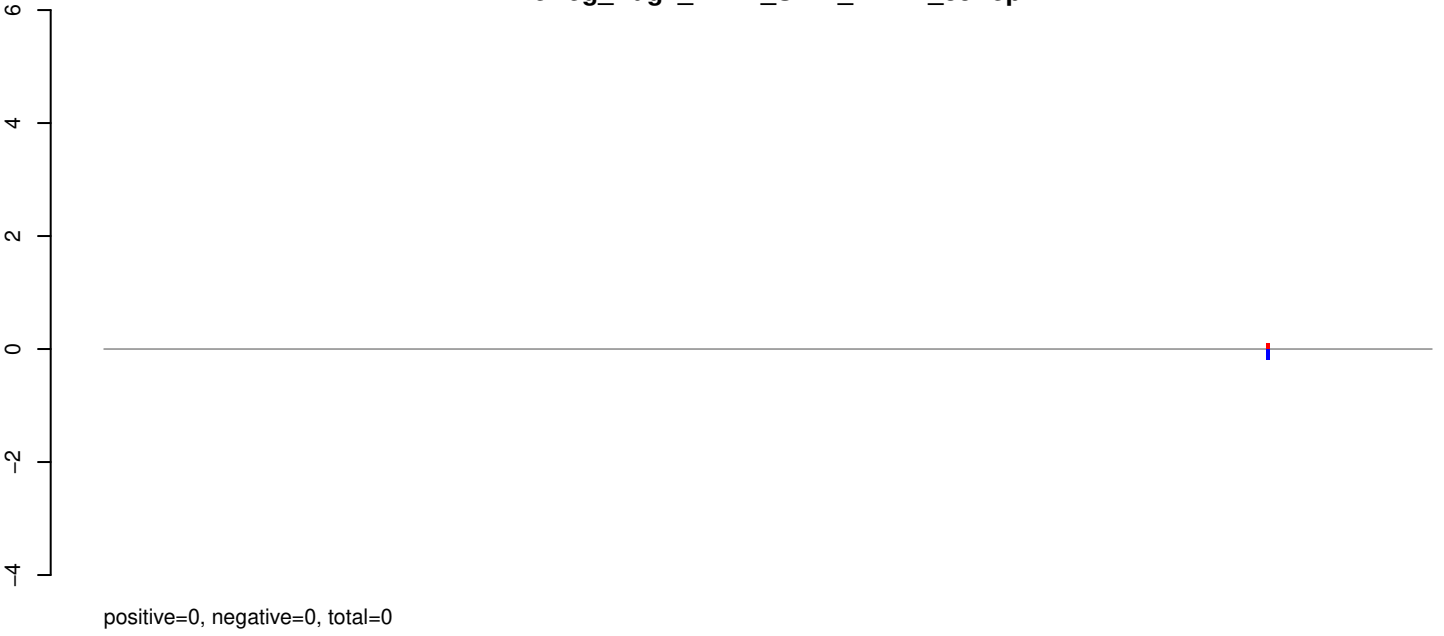
0 2000 4000 6000 8000 10000



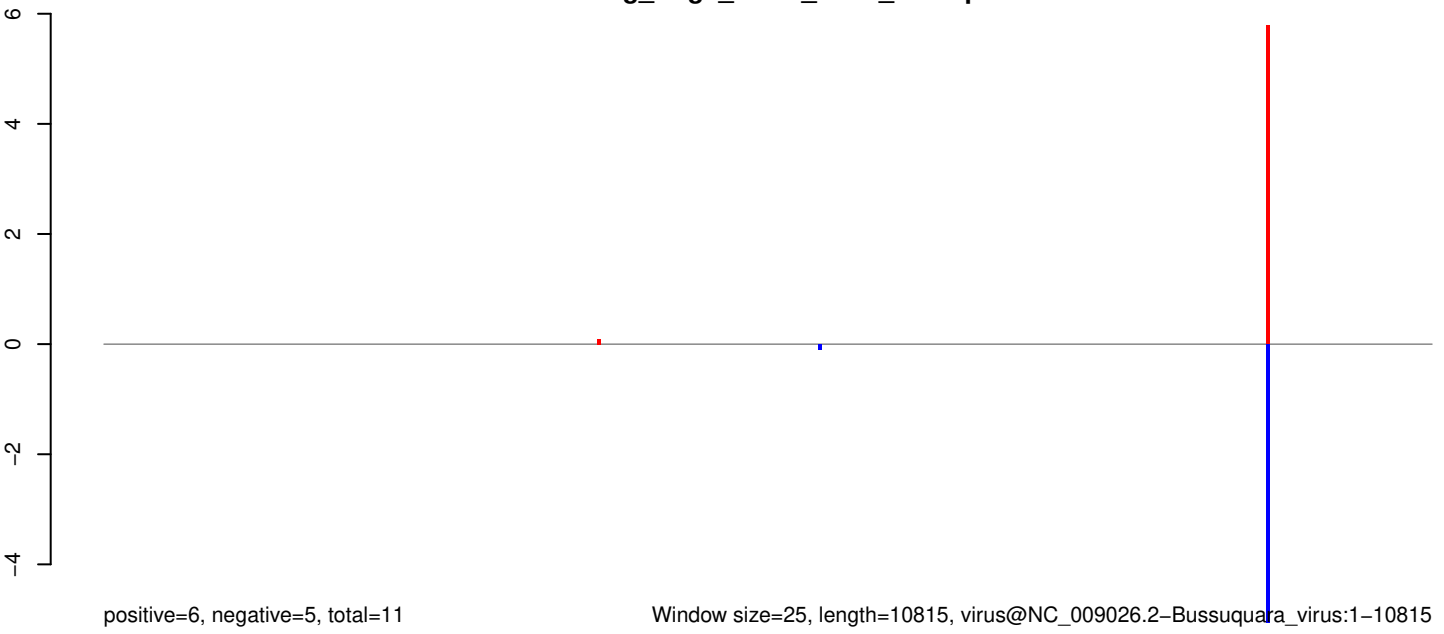
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



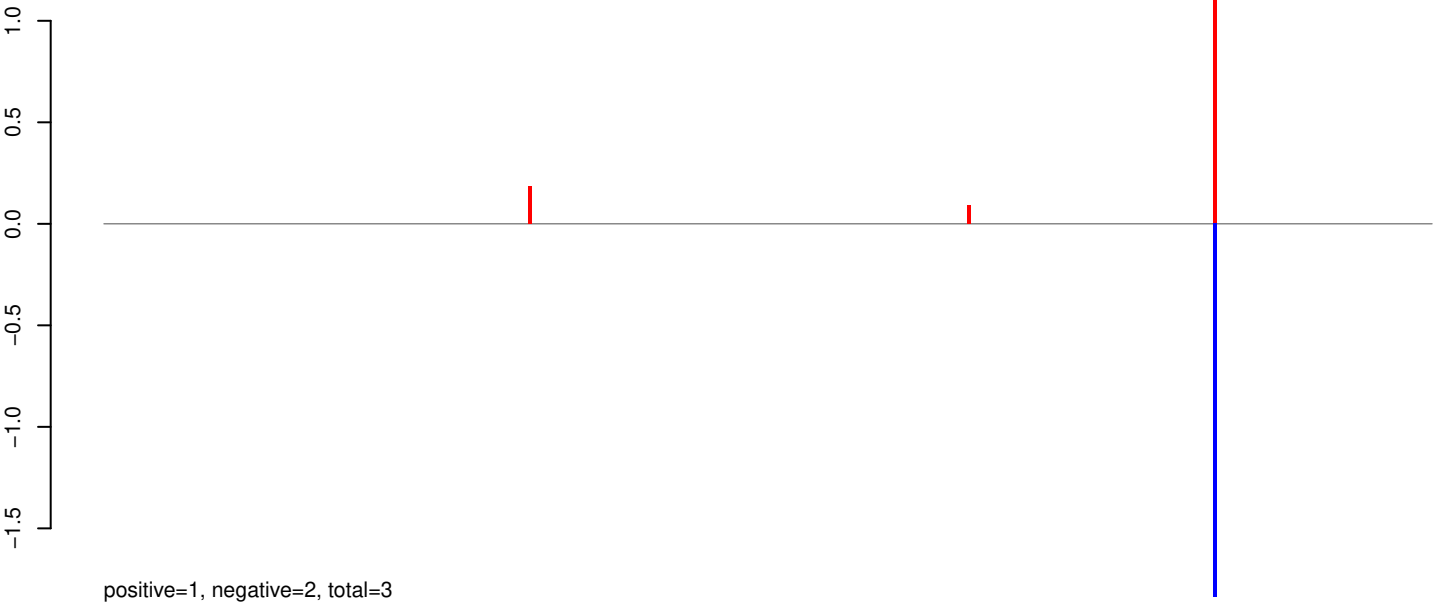
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



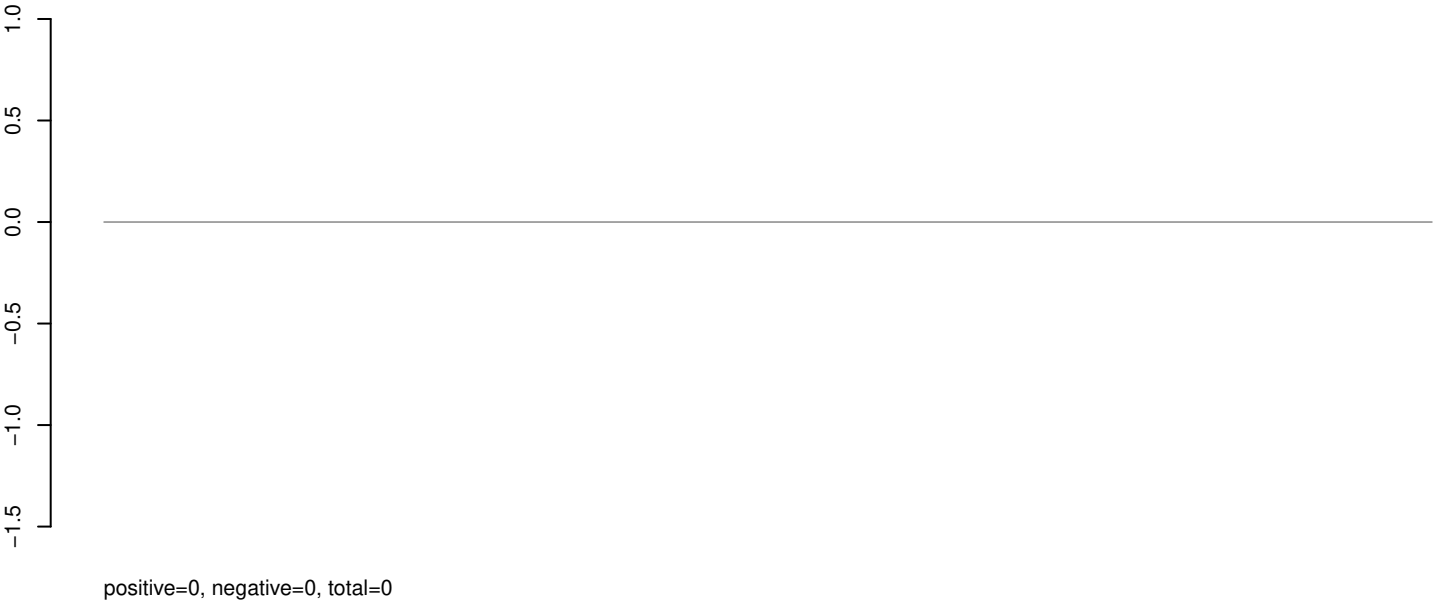
Window size=25, length=10815, virus@NC\_009026.2-Bussuquara\_virus:1-10815

0 2000 4000 6000 8000 10000

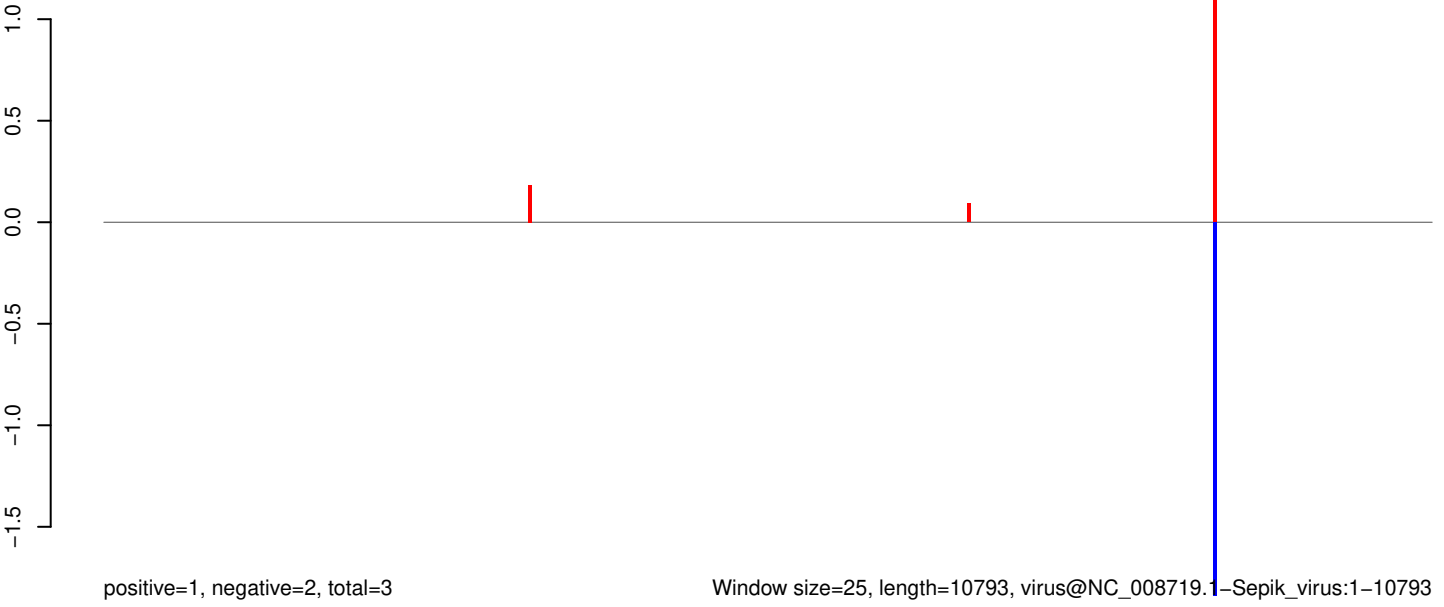
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



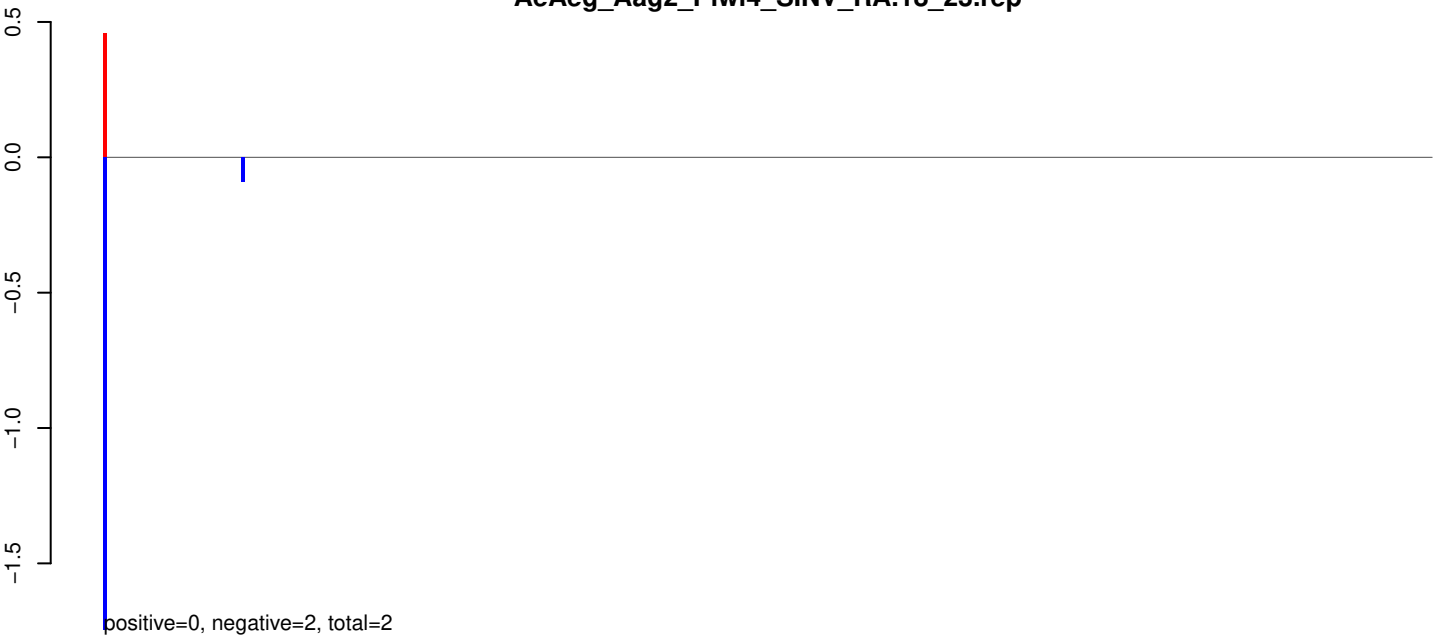
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



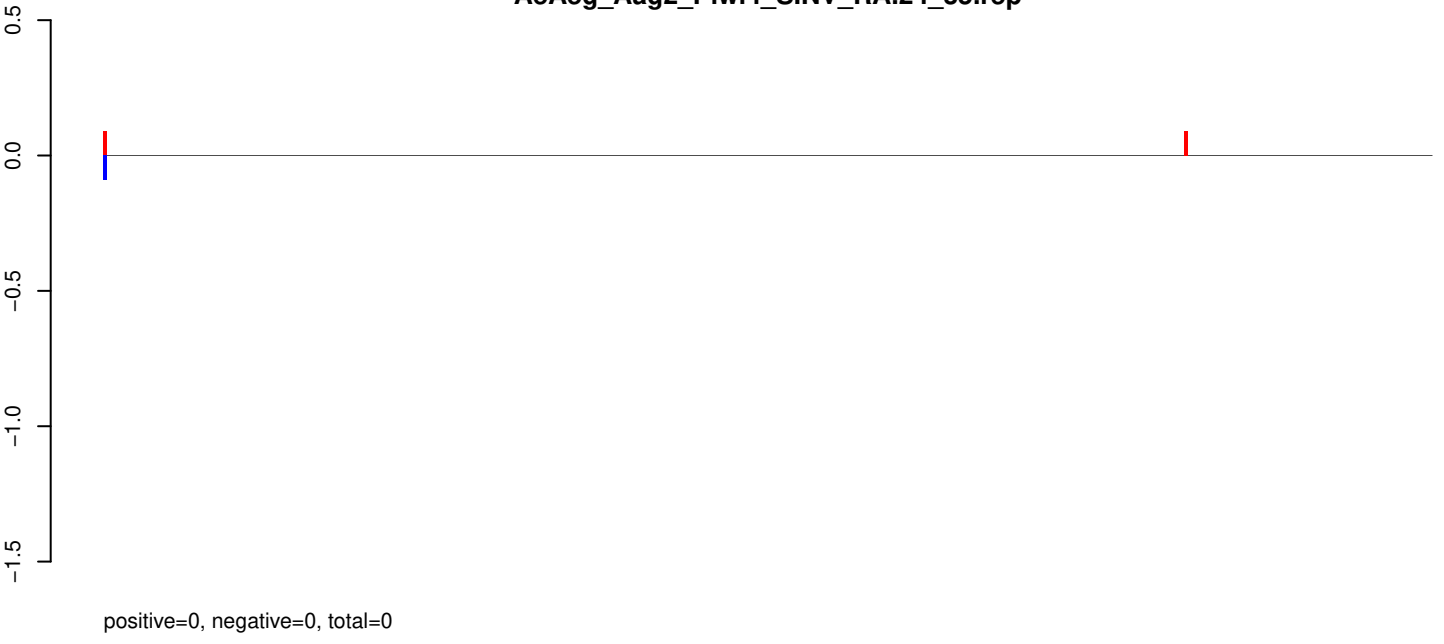
Window size=25, length=10793, virus@NC\_008719.1-Sepik\_virus:1-10793

0 2000 4000 6000 8000 10000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



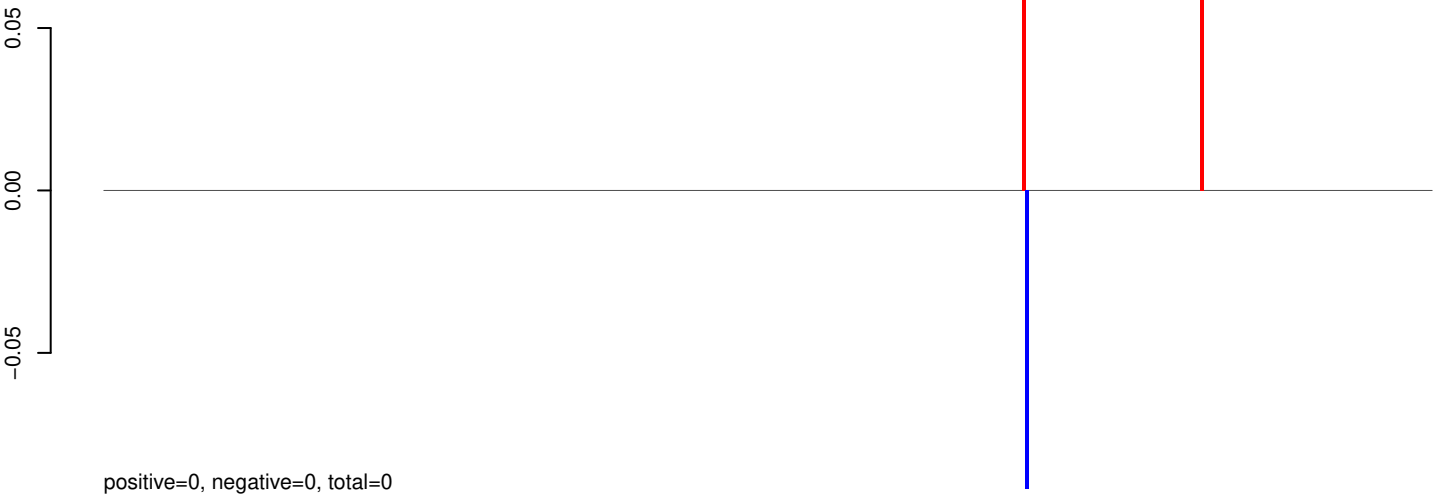
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



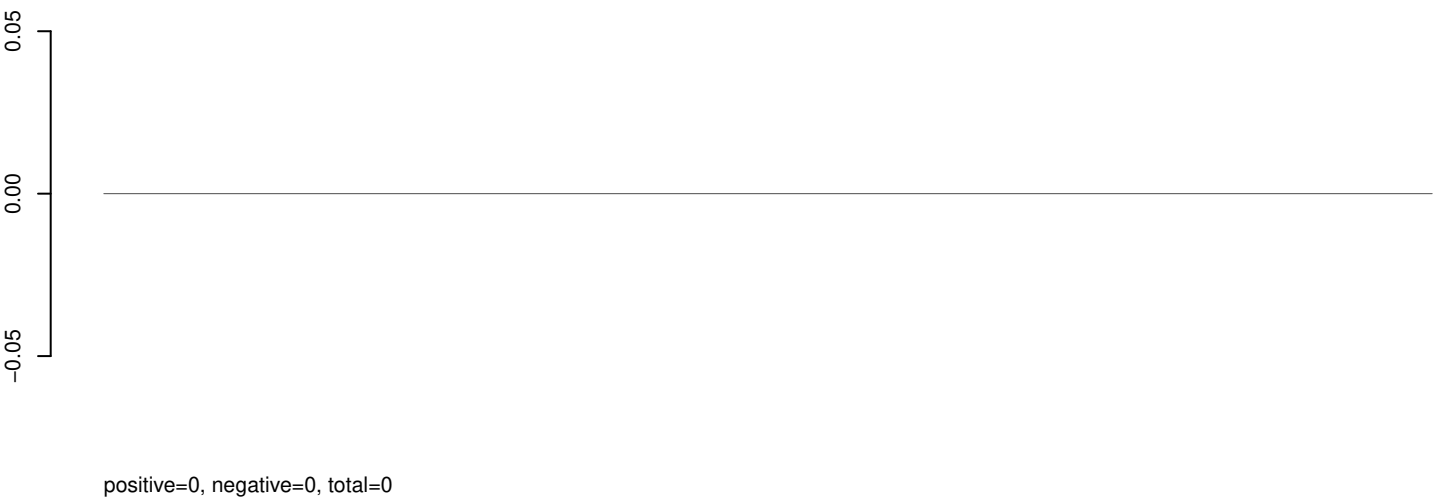
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



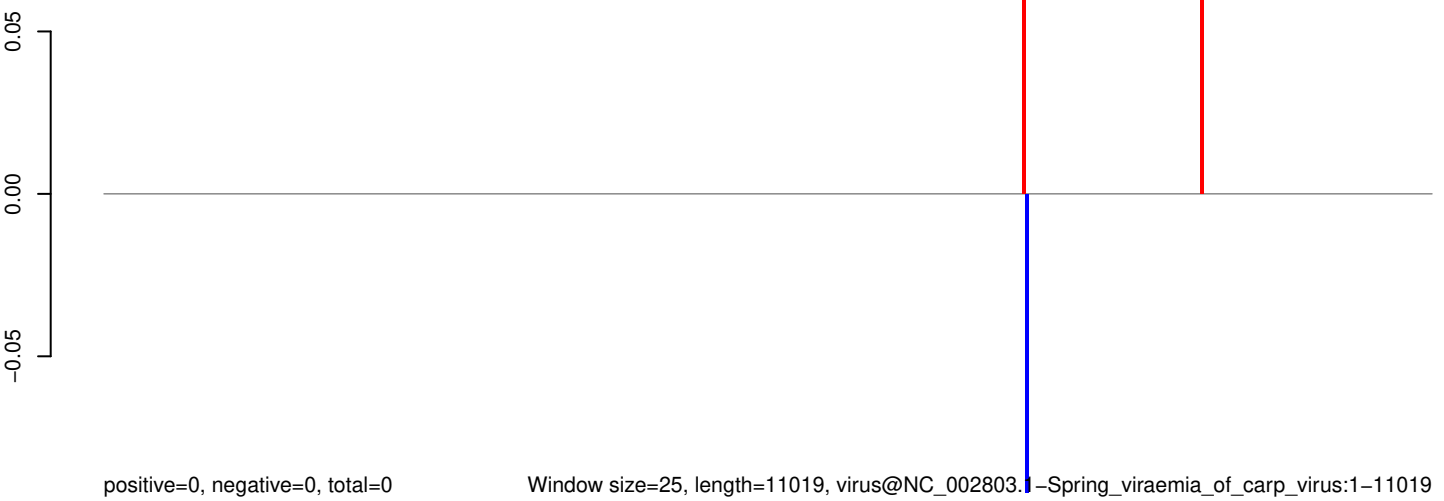
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



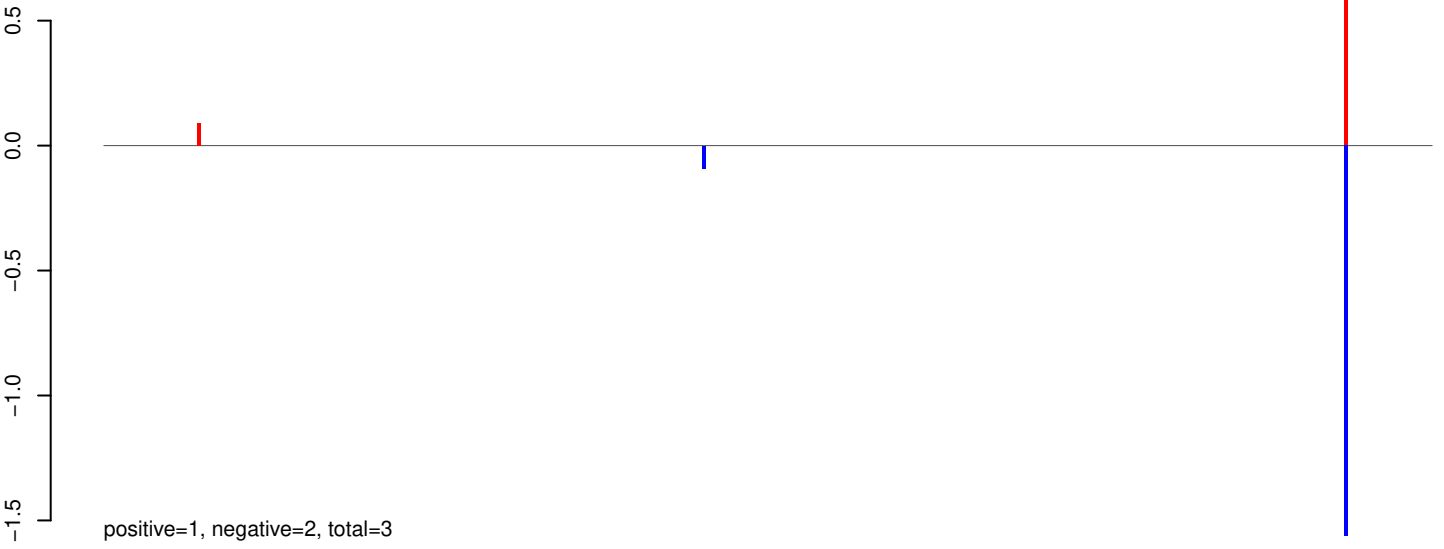
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



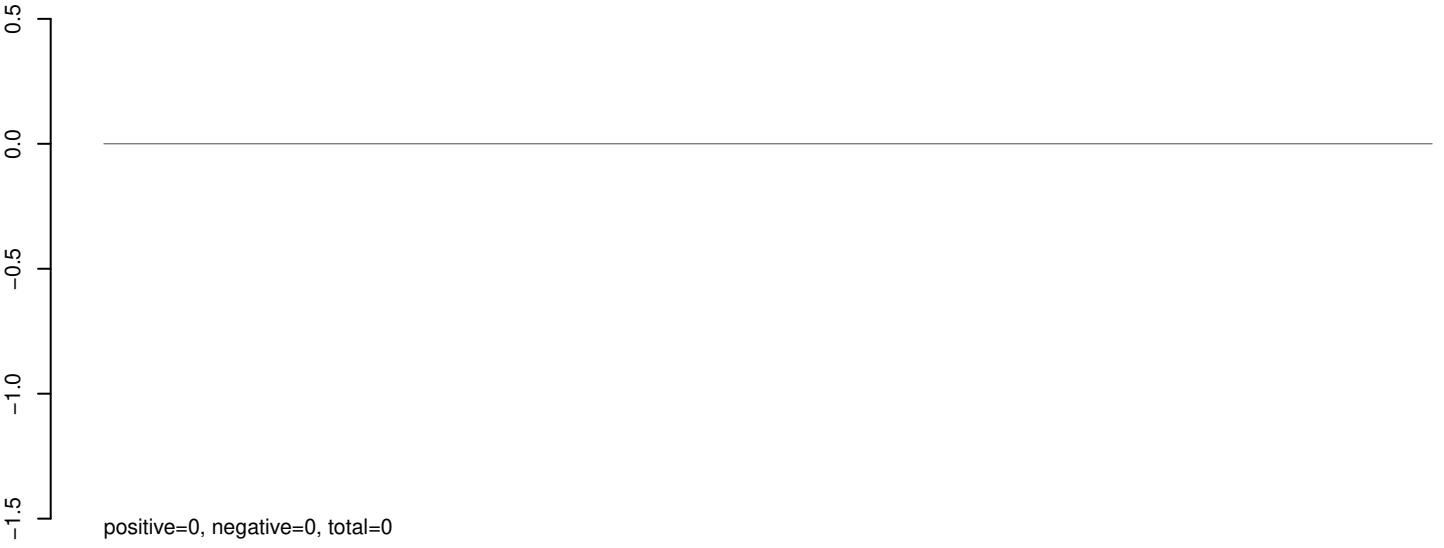
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



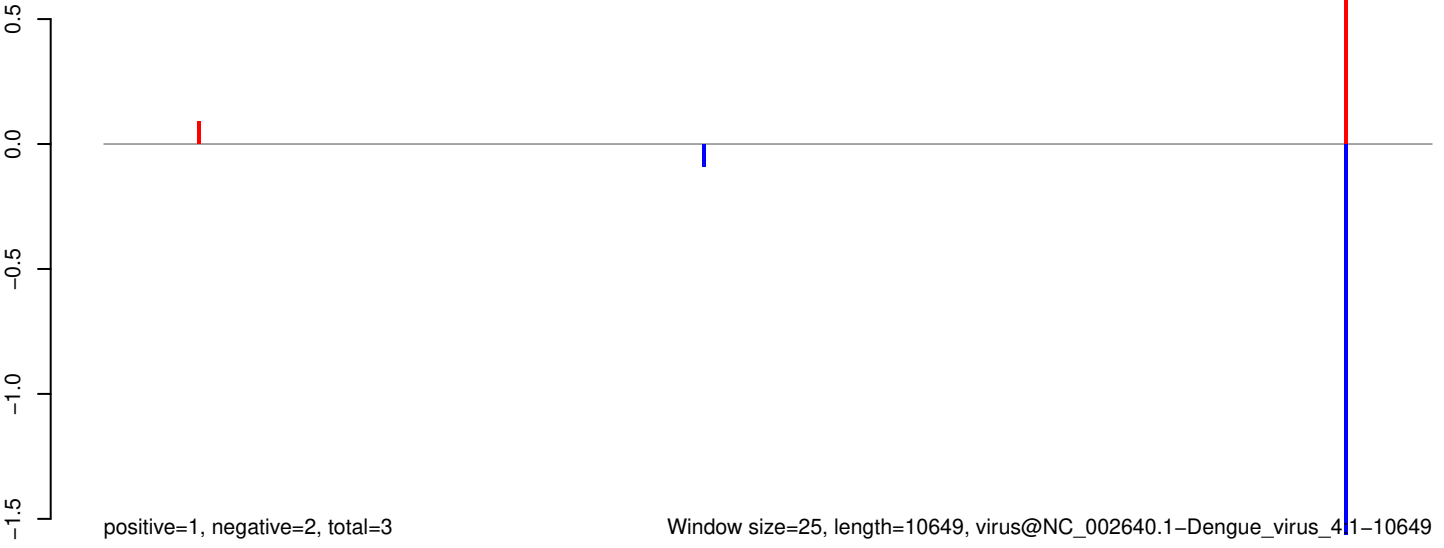
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



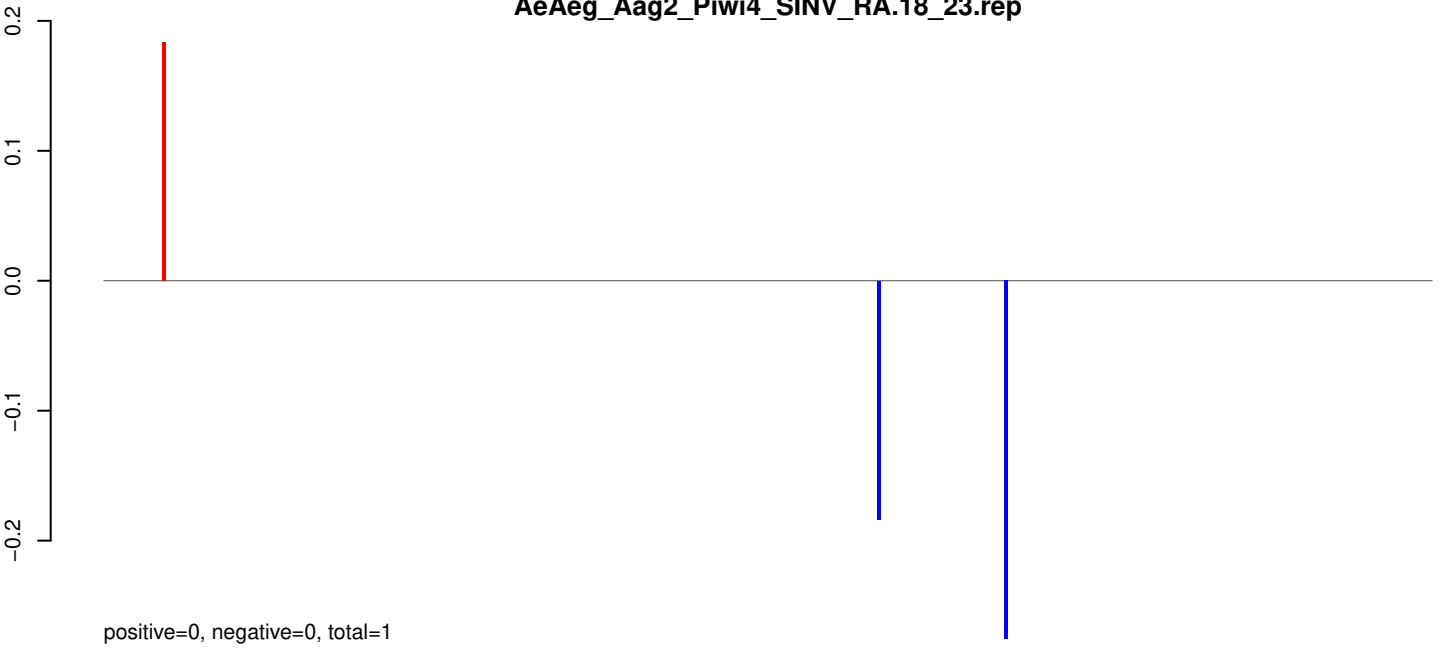
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



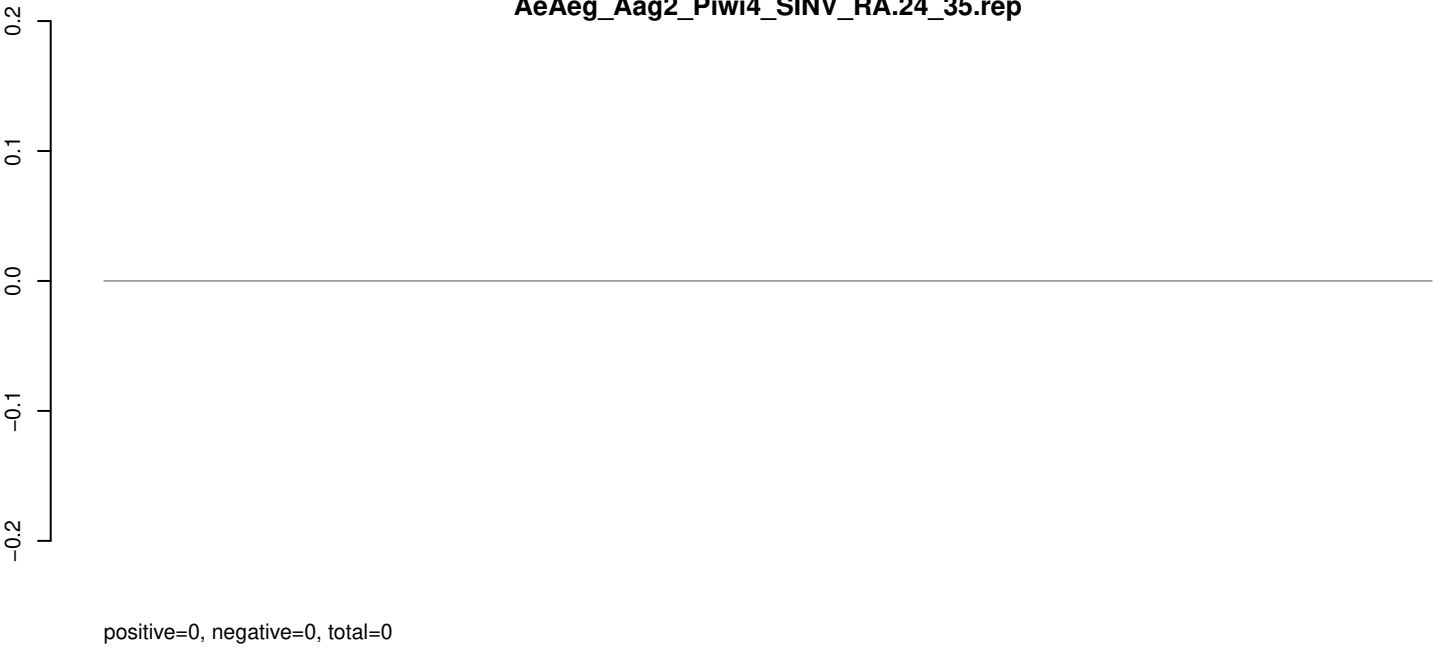
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



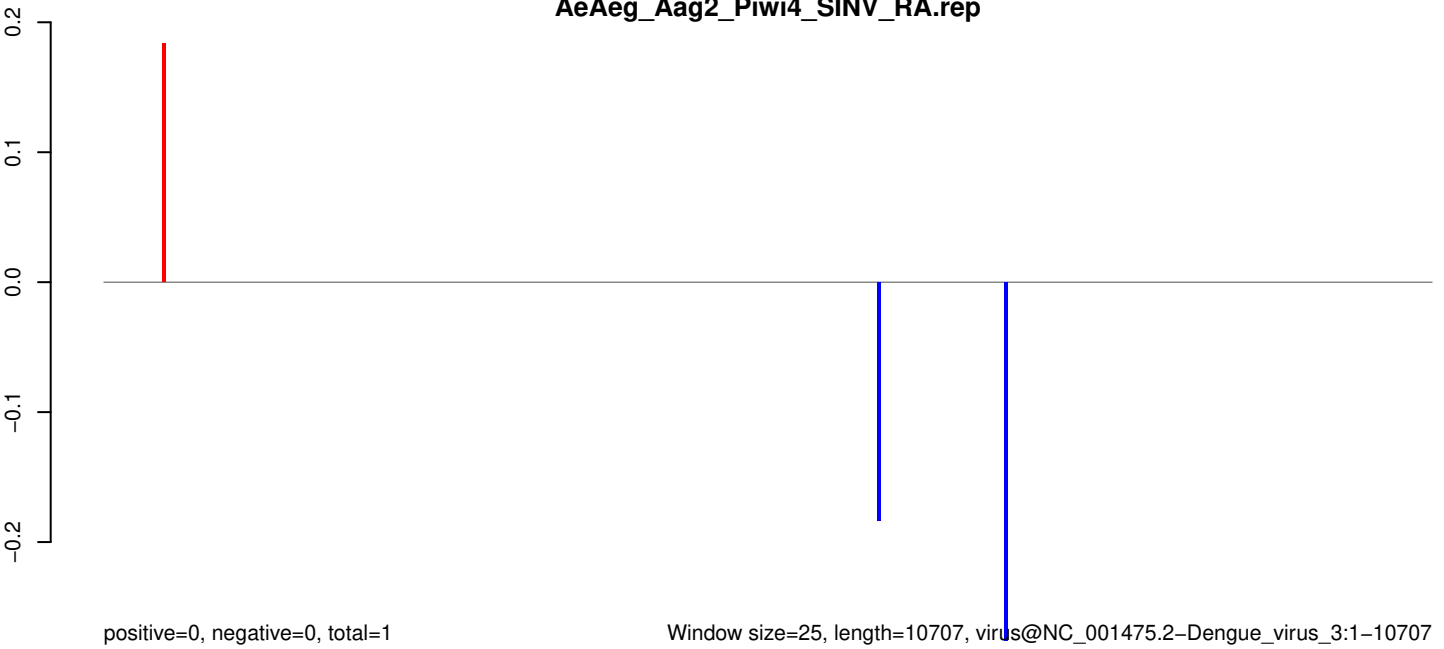
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



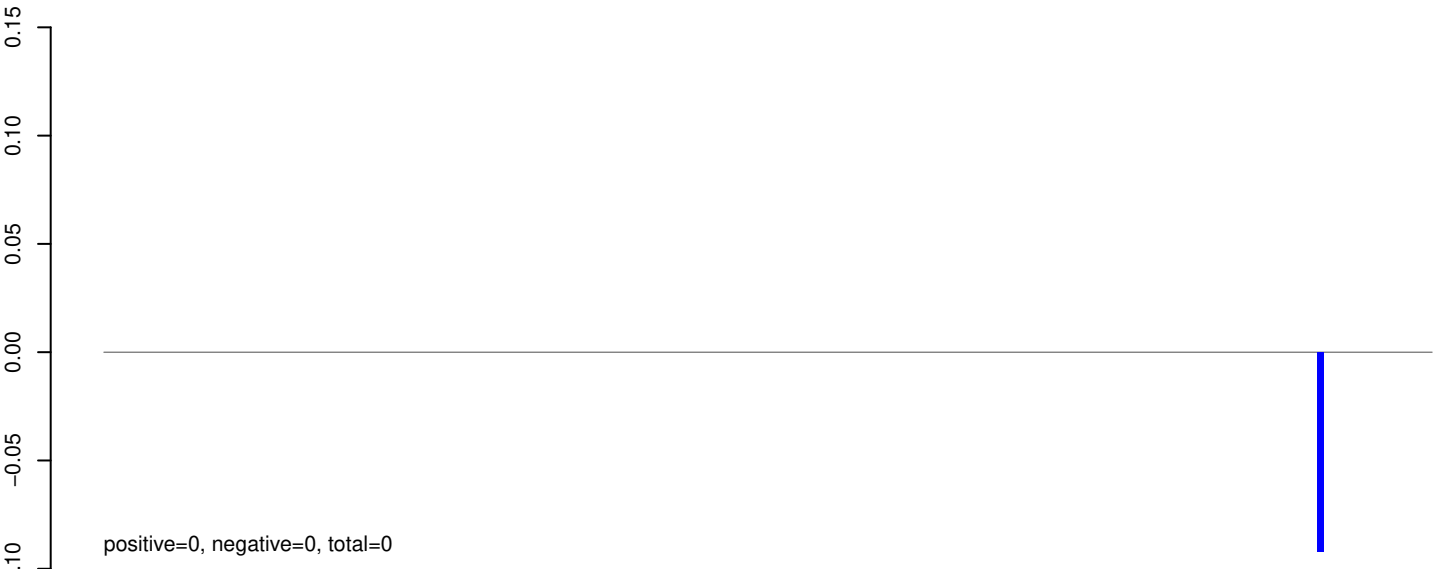
Window size=25, length=10707, virus@NC\_001475.2-Dengue\_virus\_3:1-10707

0 2000 4000 6000 8000 10000

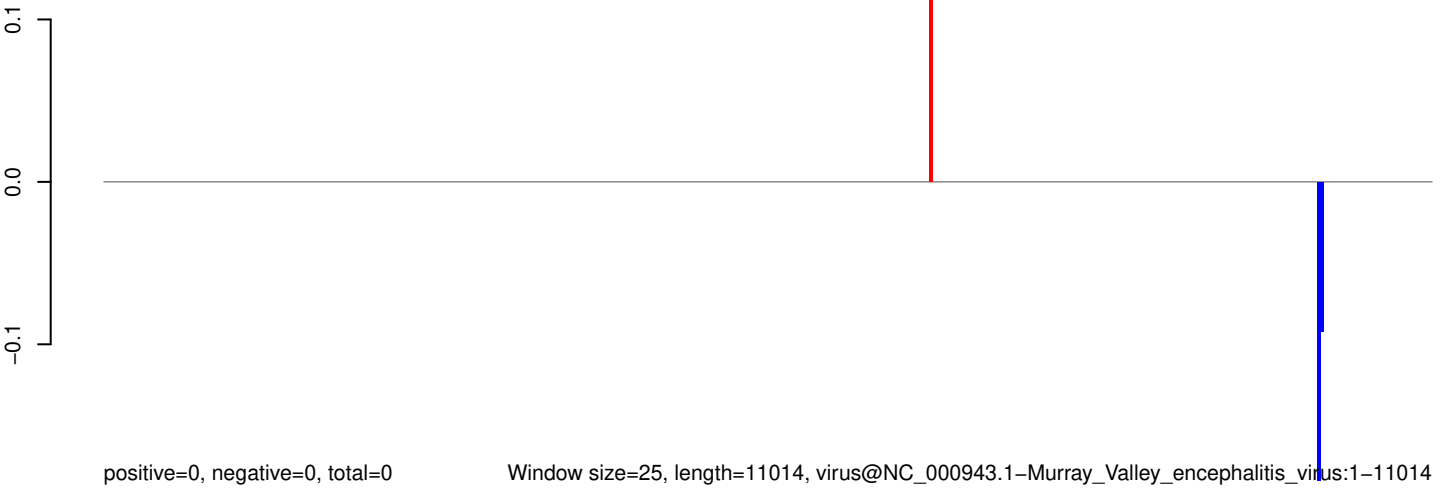
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



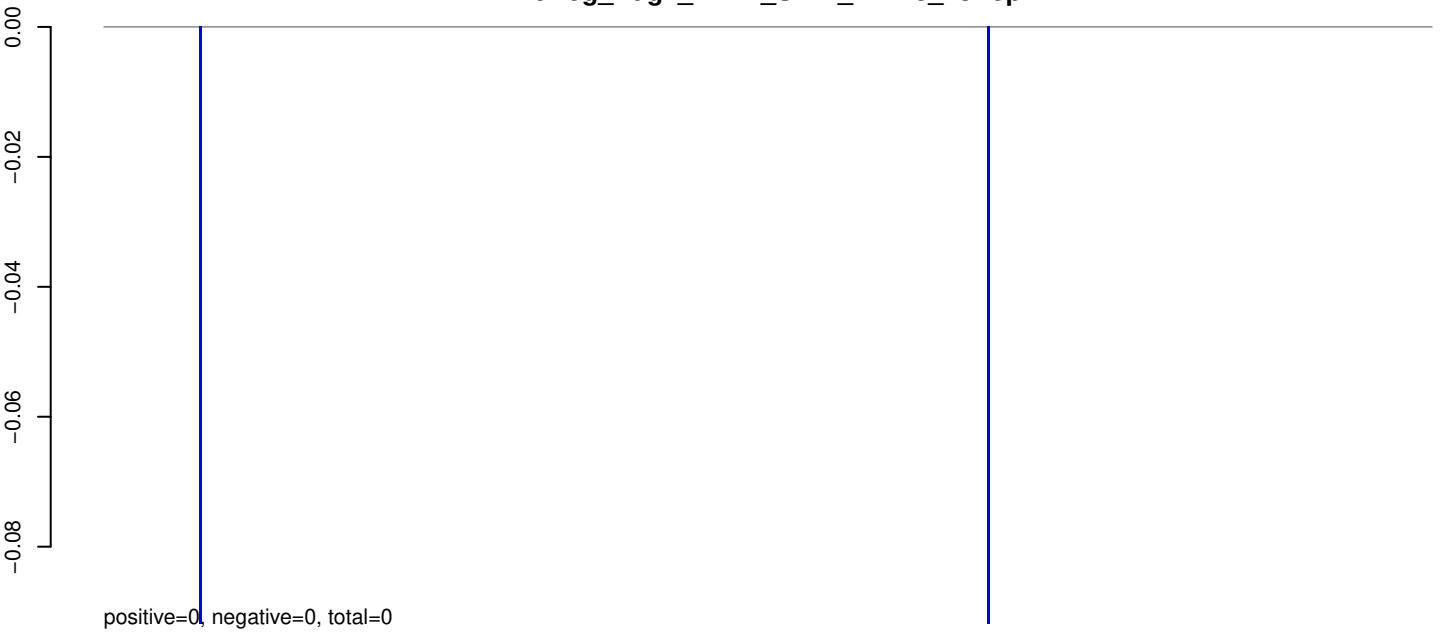
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



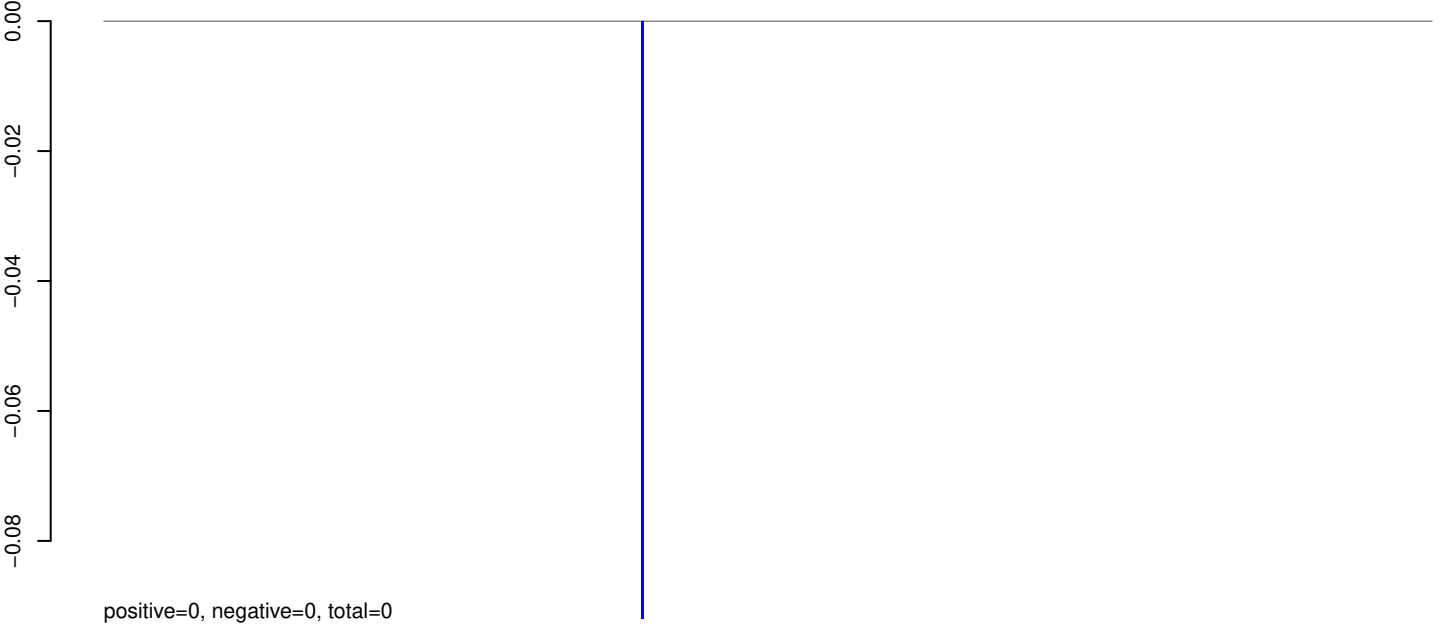
Window size=25, length=11014, virus@NC\_000943.1-Murray\_Valley\_encephalitis\_virus:1-11014

0 2000 4000 6000 8000 10000

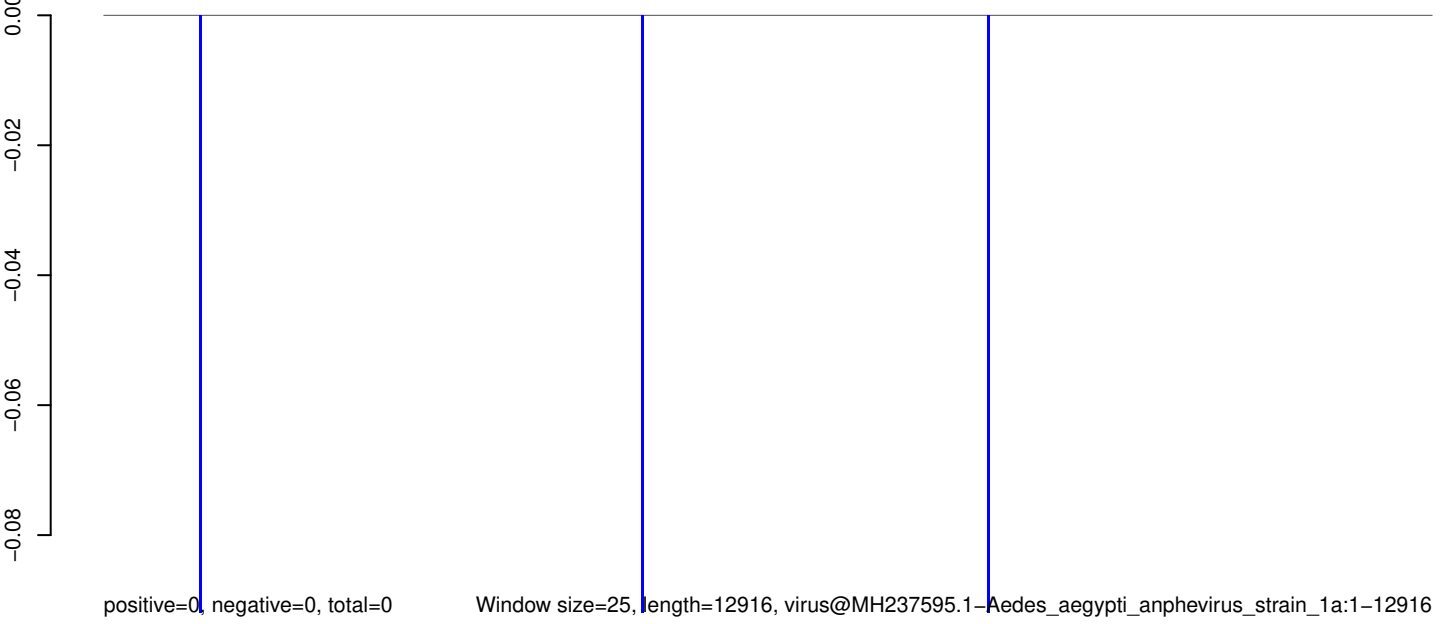
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



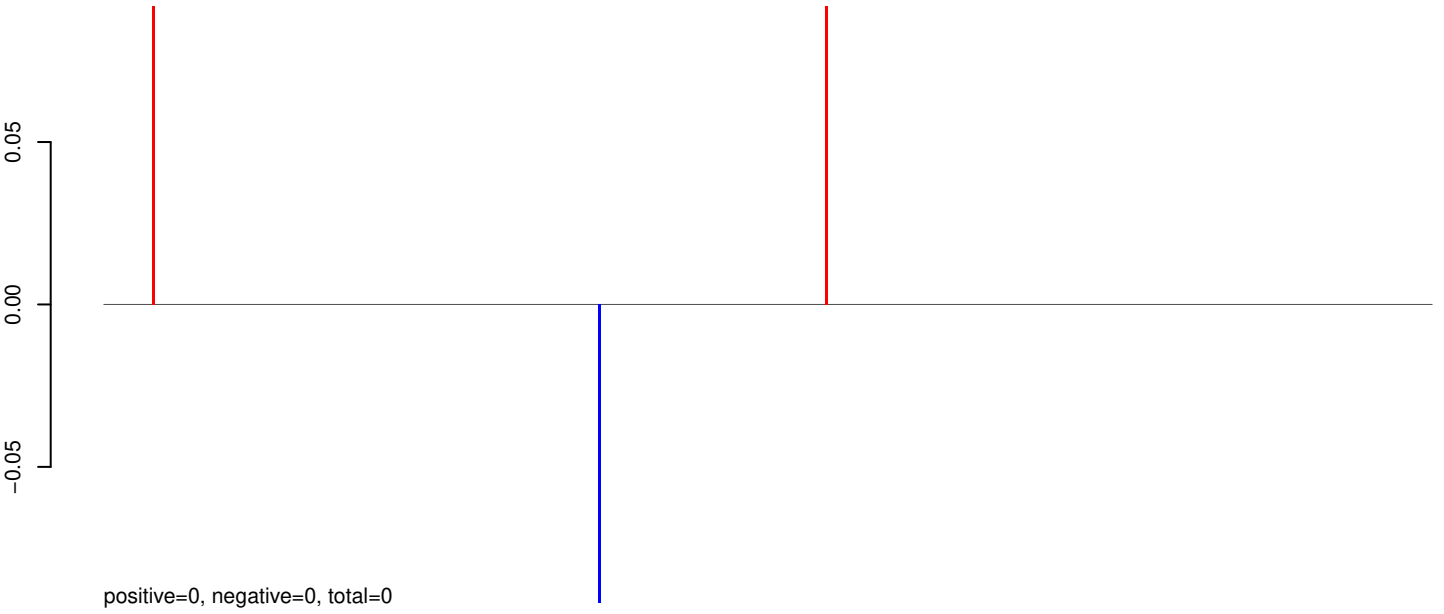
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



0 2000 4000 6000 8000 10000 12000

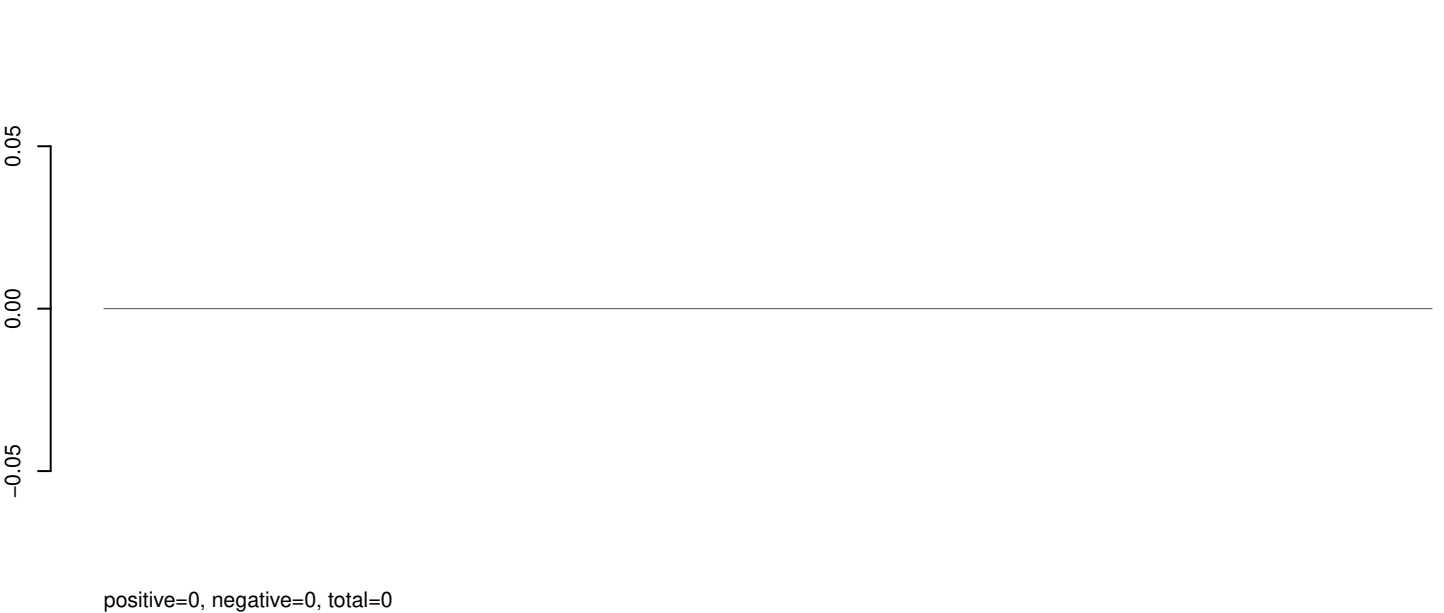


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



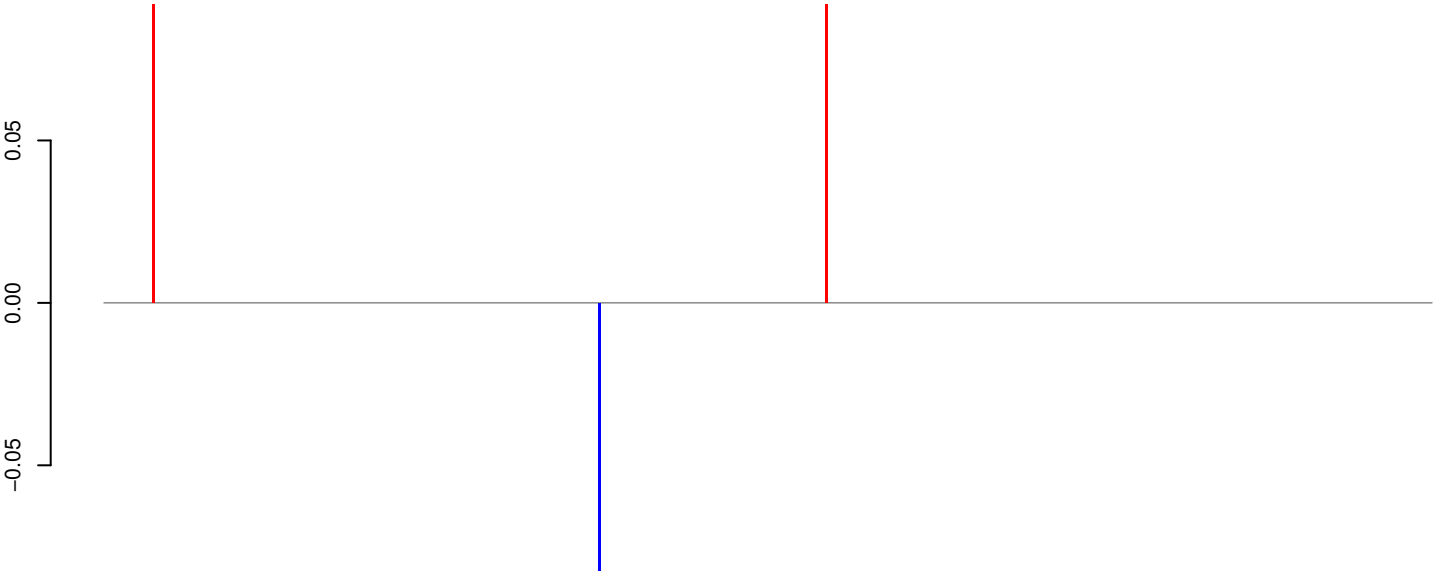
positive=0, negative=0, total=0

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

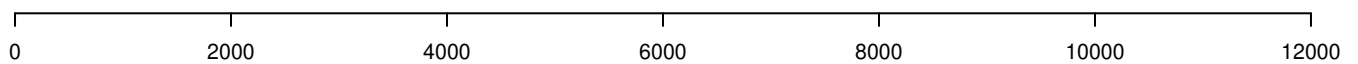


positive=0, negative=0, total=0

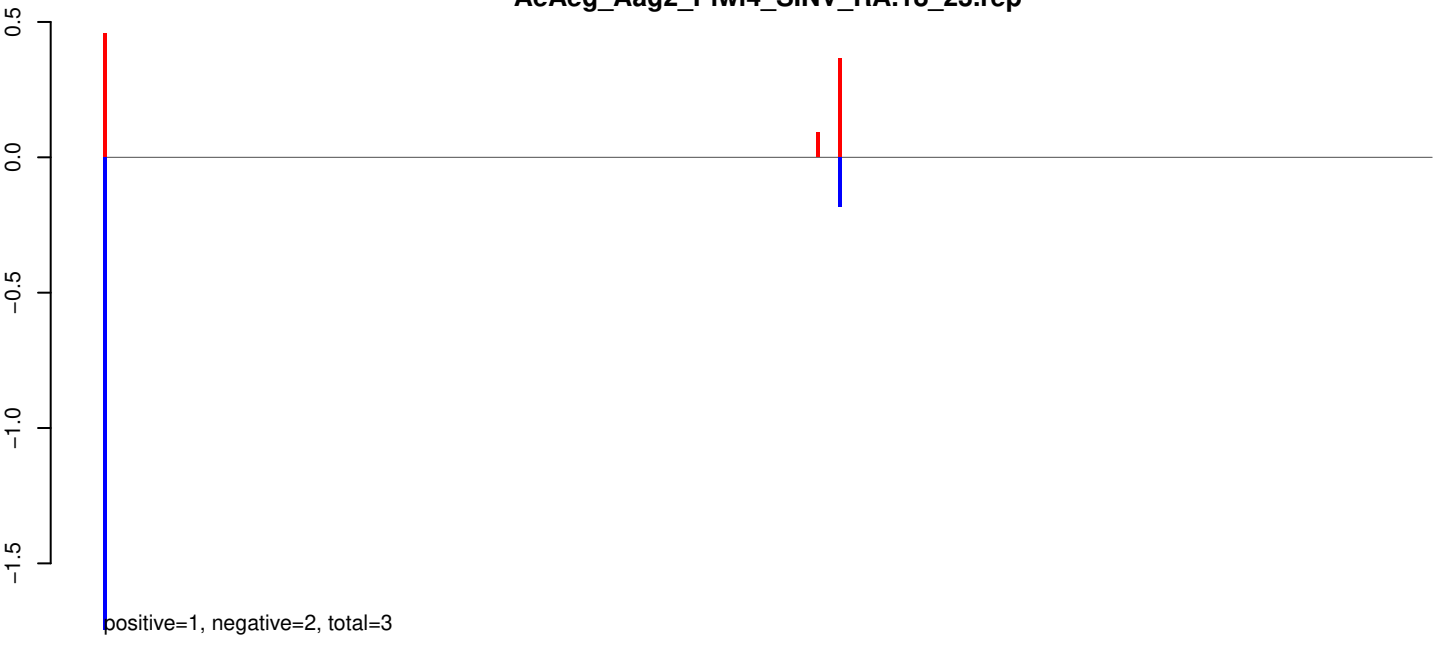
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



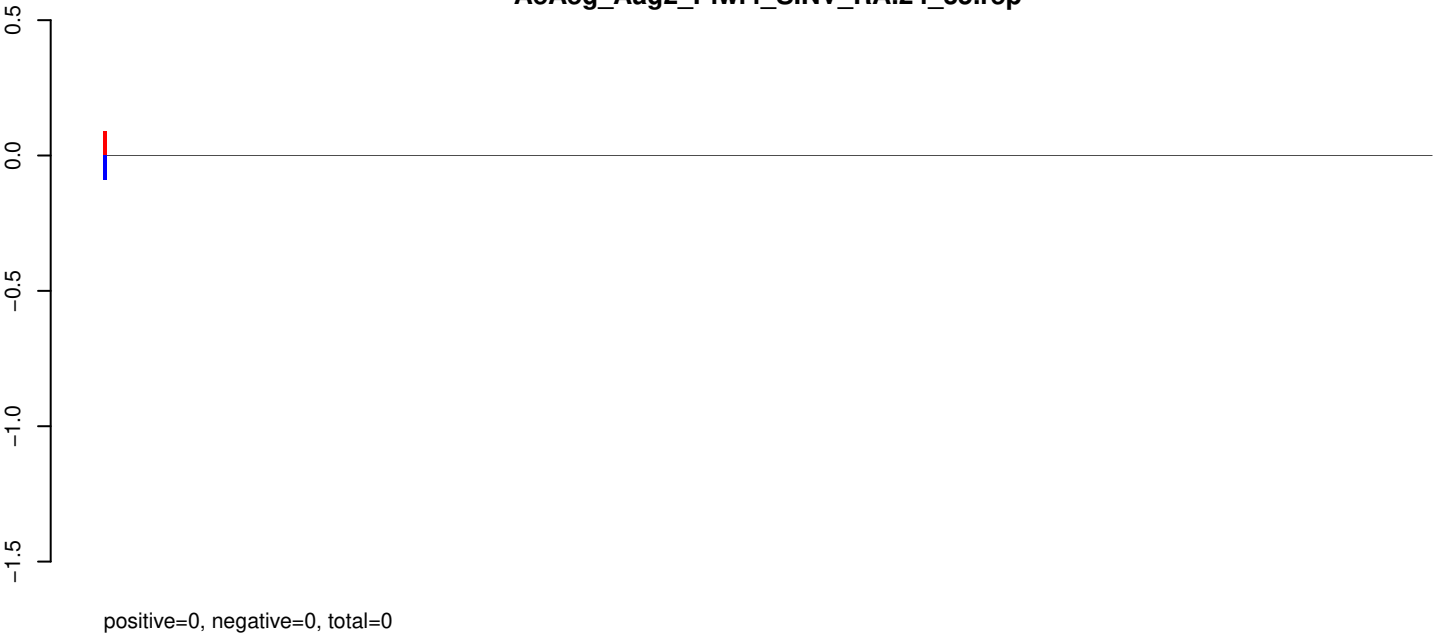
Winnipeg, Manitoba, Canada: 2017-2018, Ilesha Virus@KC608151.1-Ilesha\_virus\_strain\_ILESHA\_8e\_segment\_S\_plus\_segment\_M\_plus\_segment\_L:1-12297



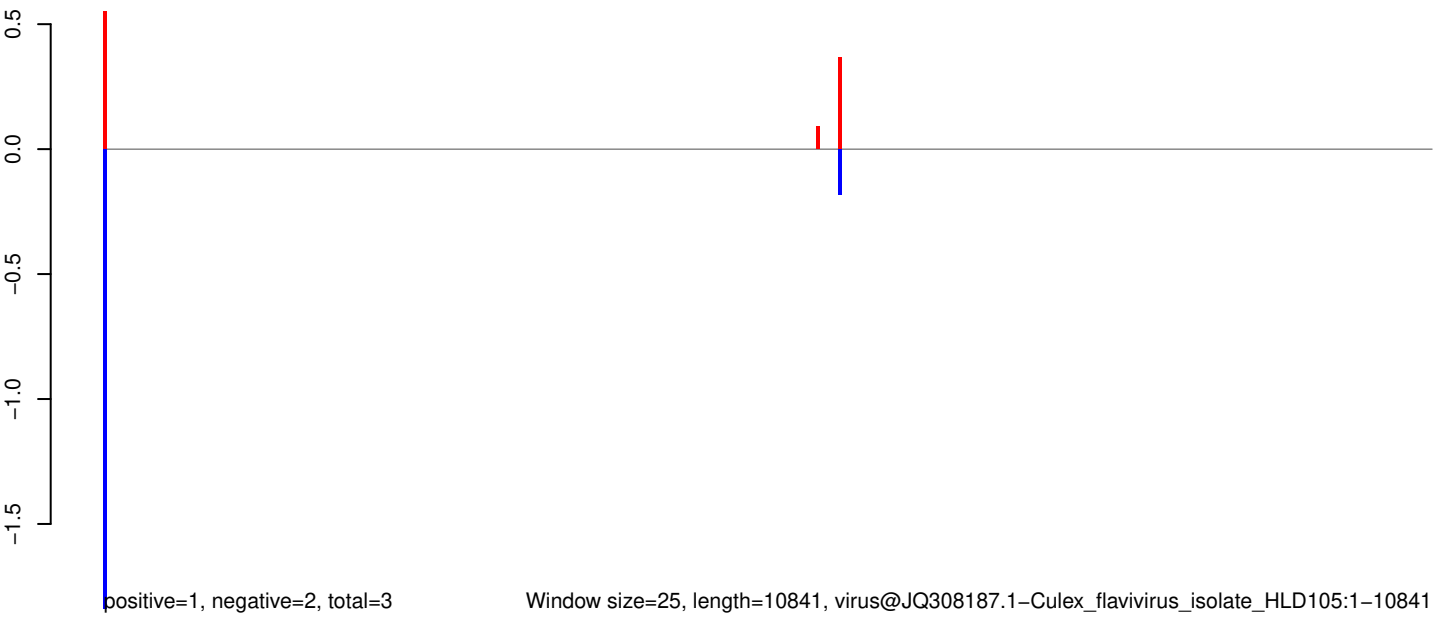
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



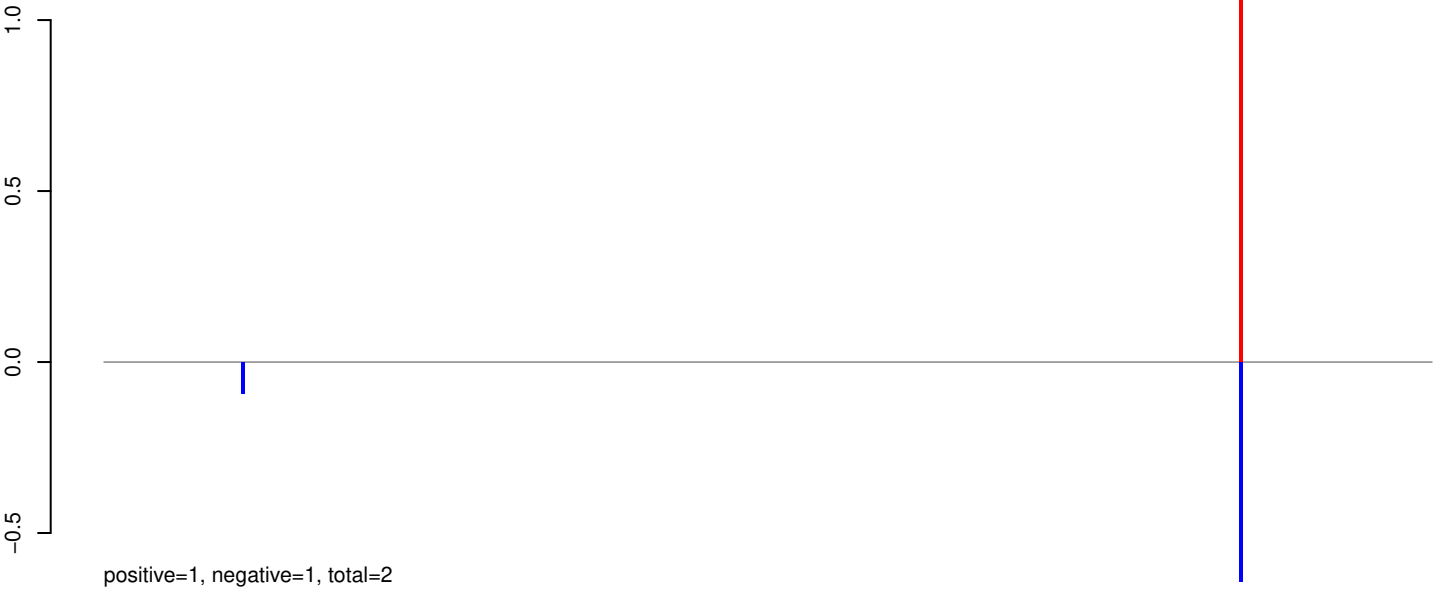
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



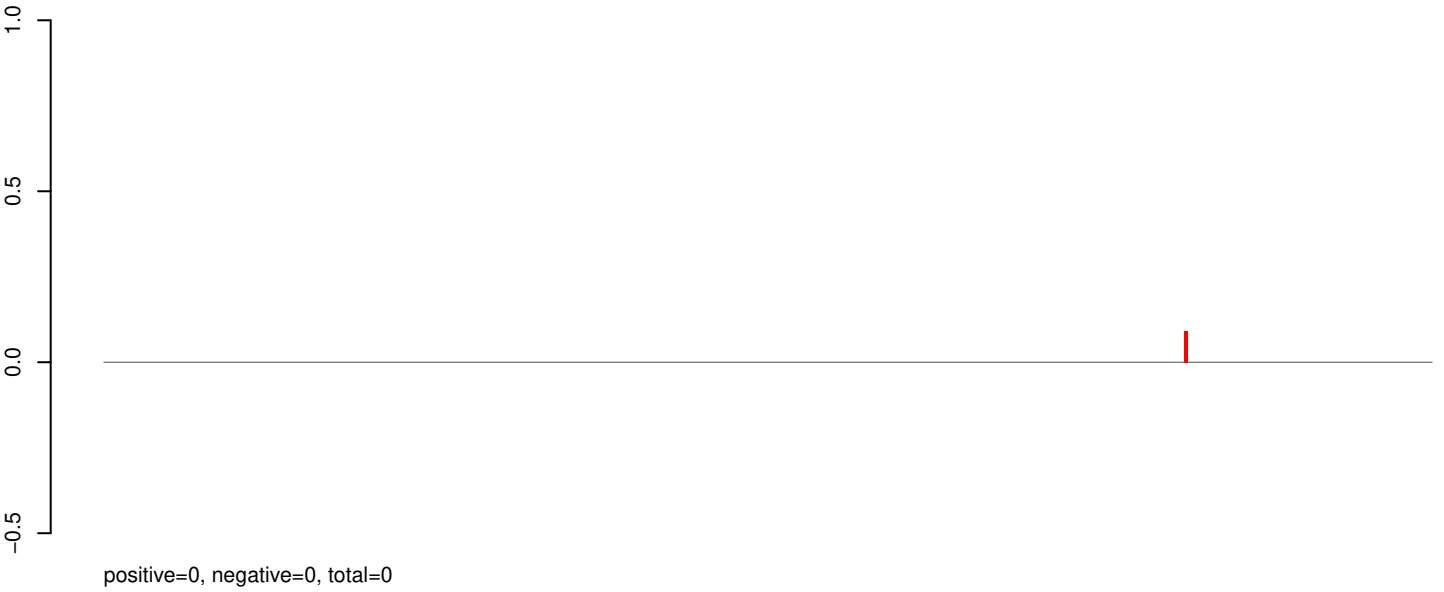
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



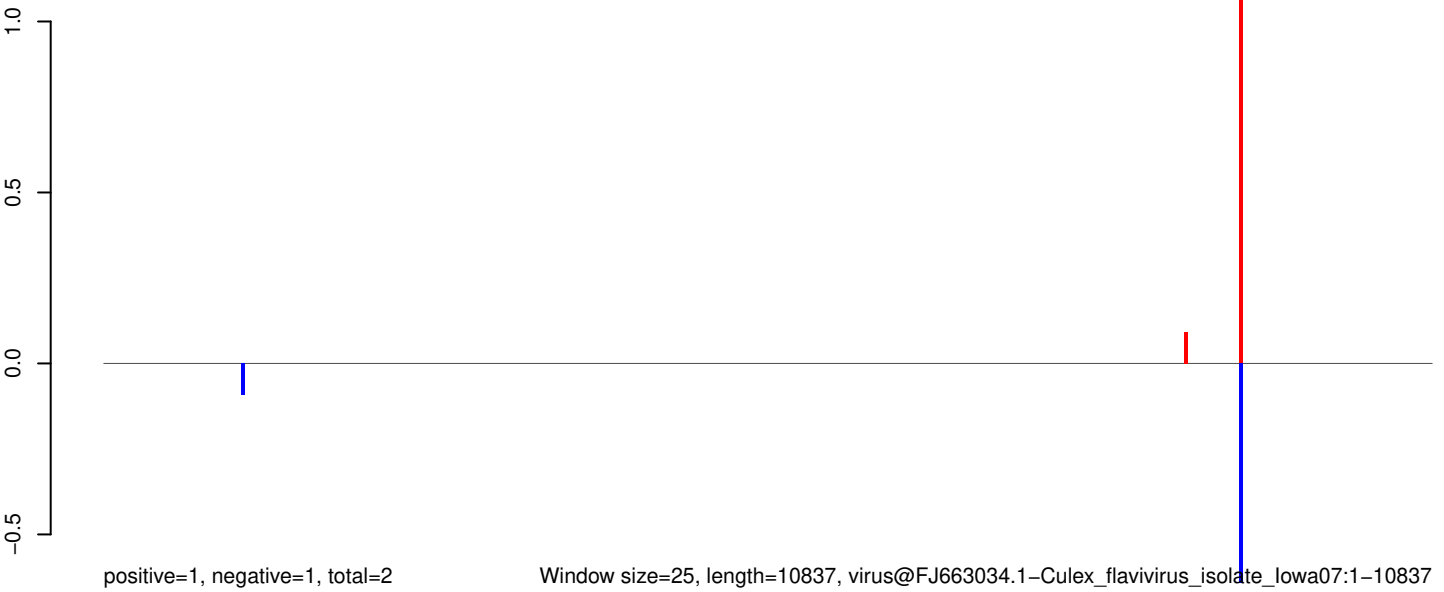
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



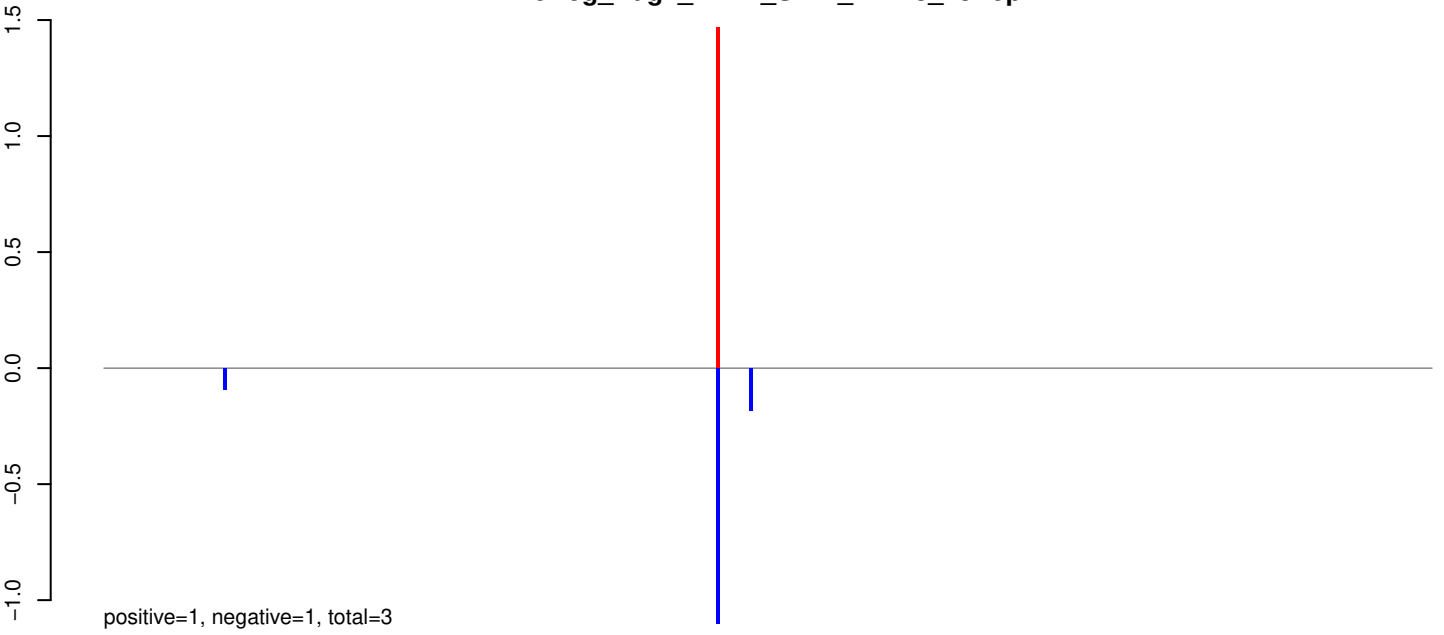
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

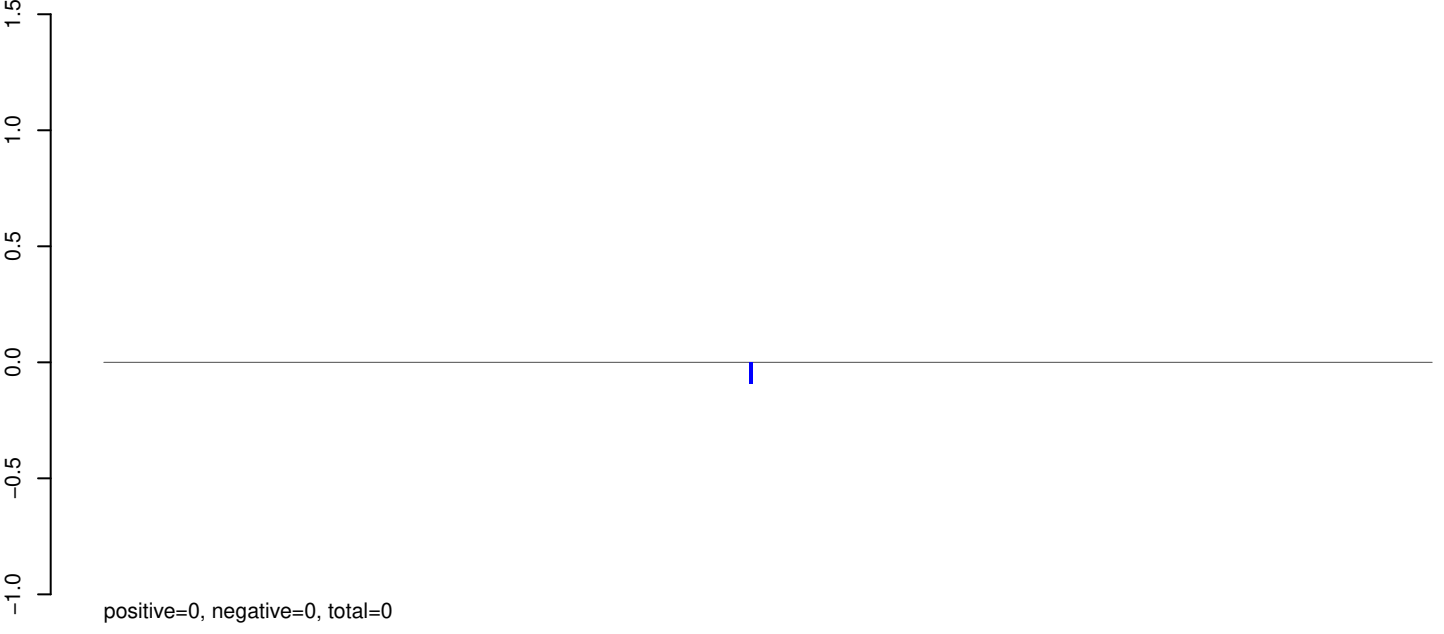


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



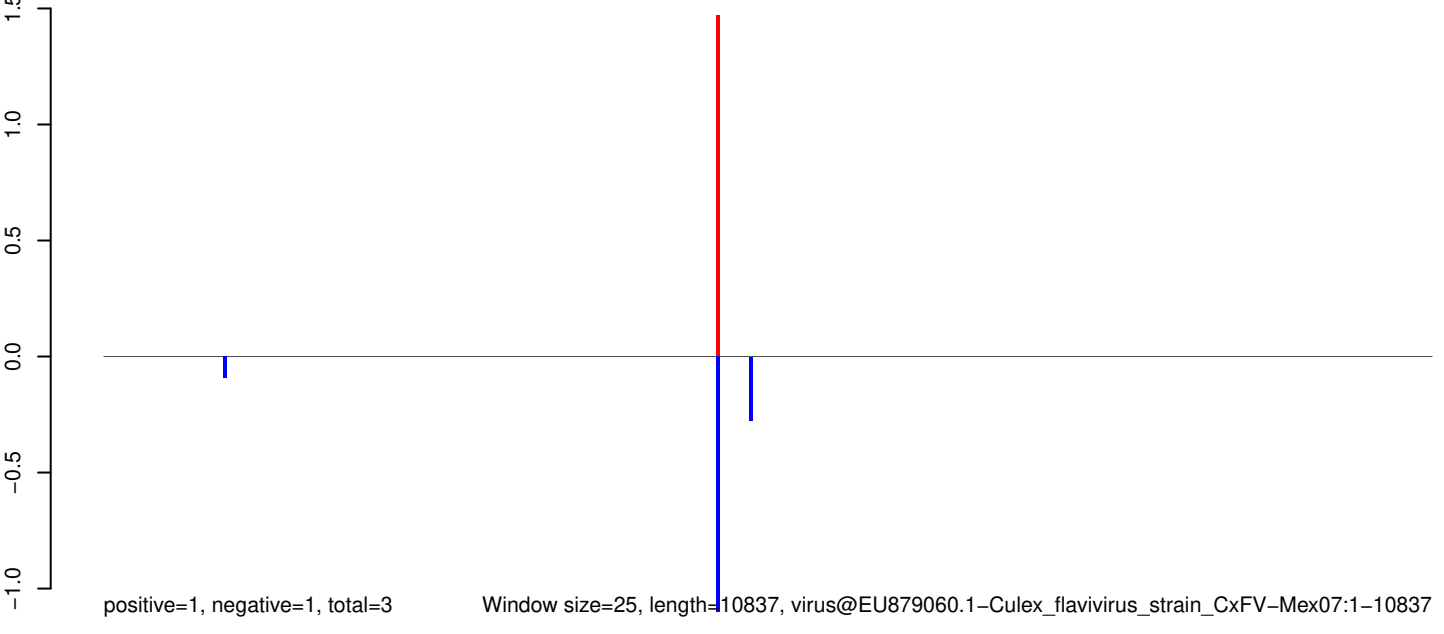
positive=1, negative=1, total=3

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



positive=0, negative=0, total=0

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

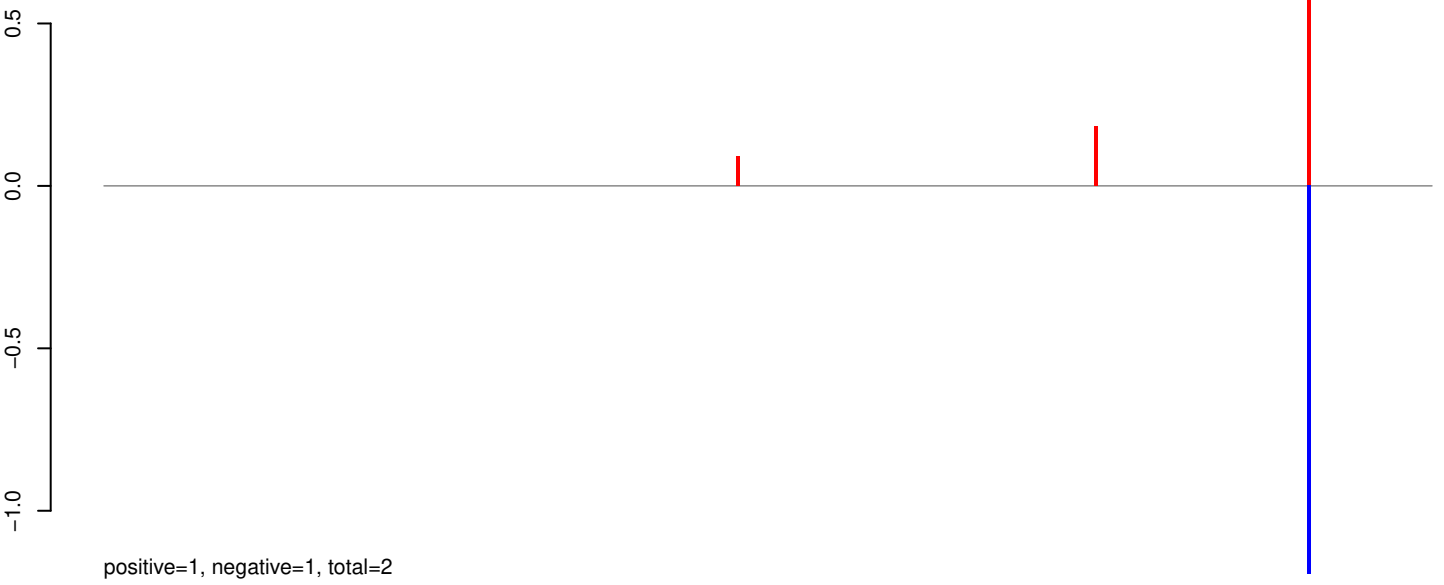


positive=1, negative=1, total=3

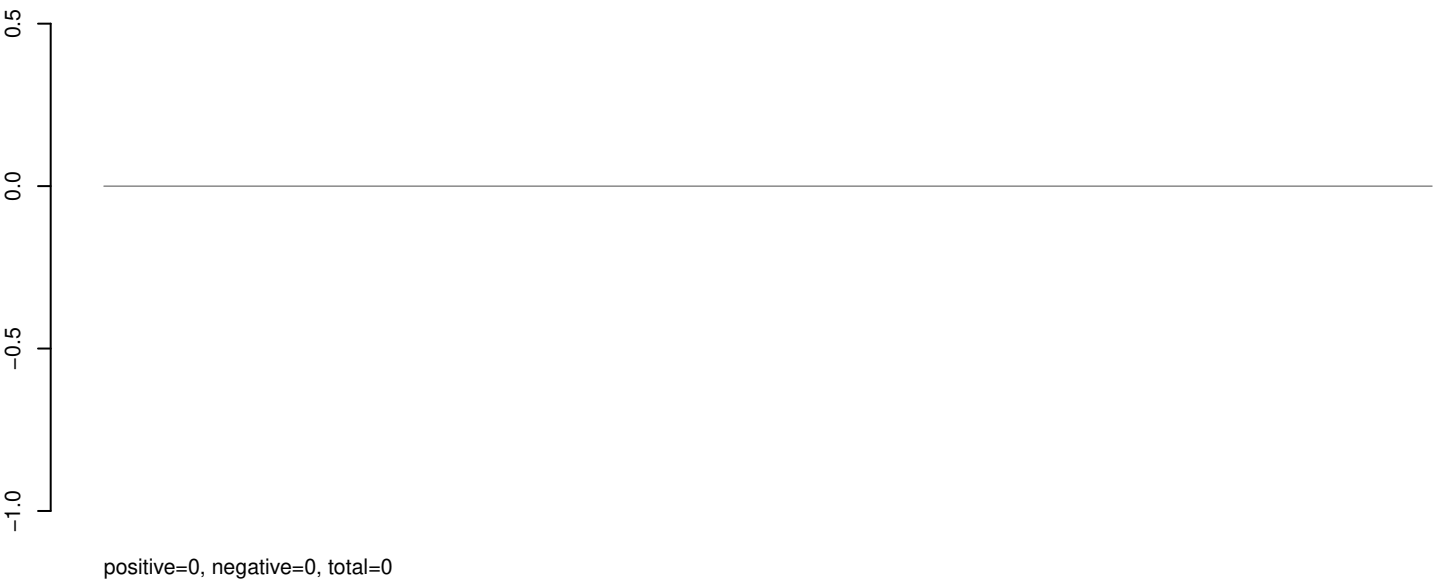
Window size=25, length=10837, virus@EU879060.1-Culex\_flavivirus\_strain\_CxFV-Mex07:1-10837

0 2000 4000 6000 8000 10000

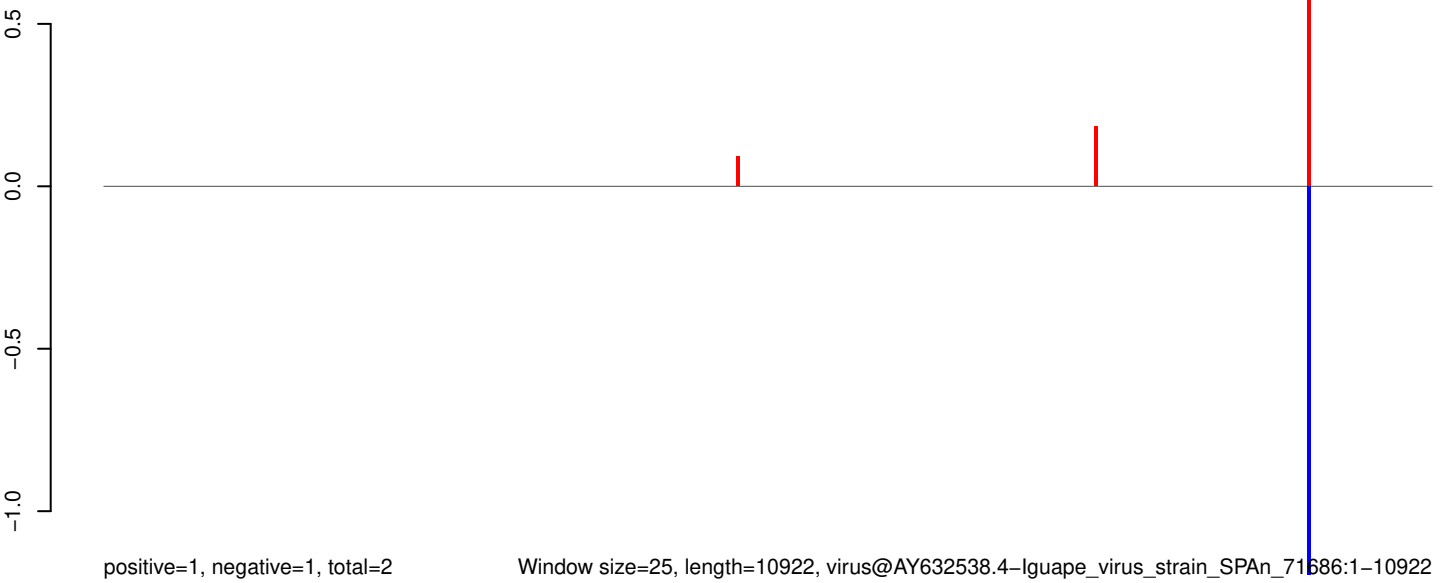
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



Window size=25, length=10922, virus@AY632538.4-Iguape\_virus\_strain\_SPAn\_71686:1-10922

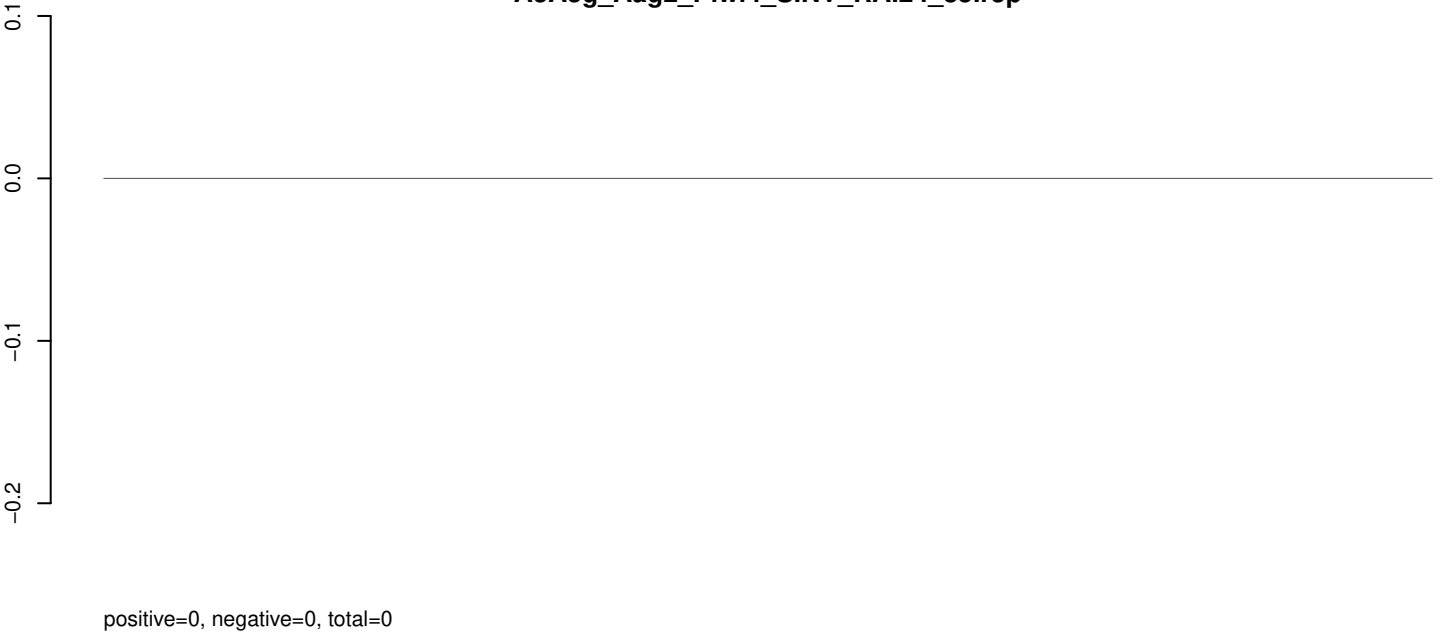
0 2000 4000 6000 8000 10000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



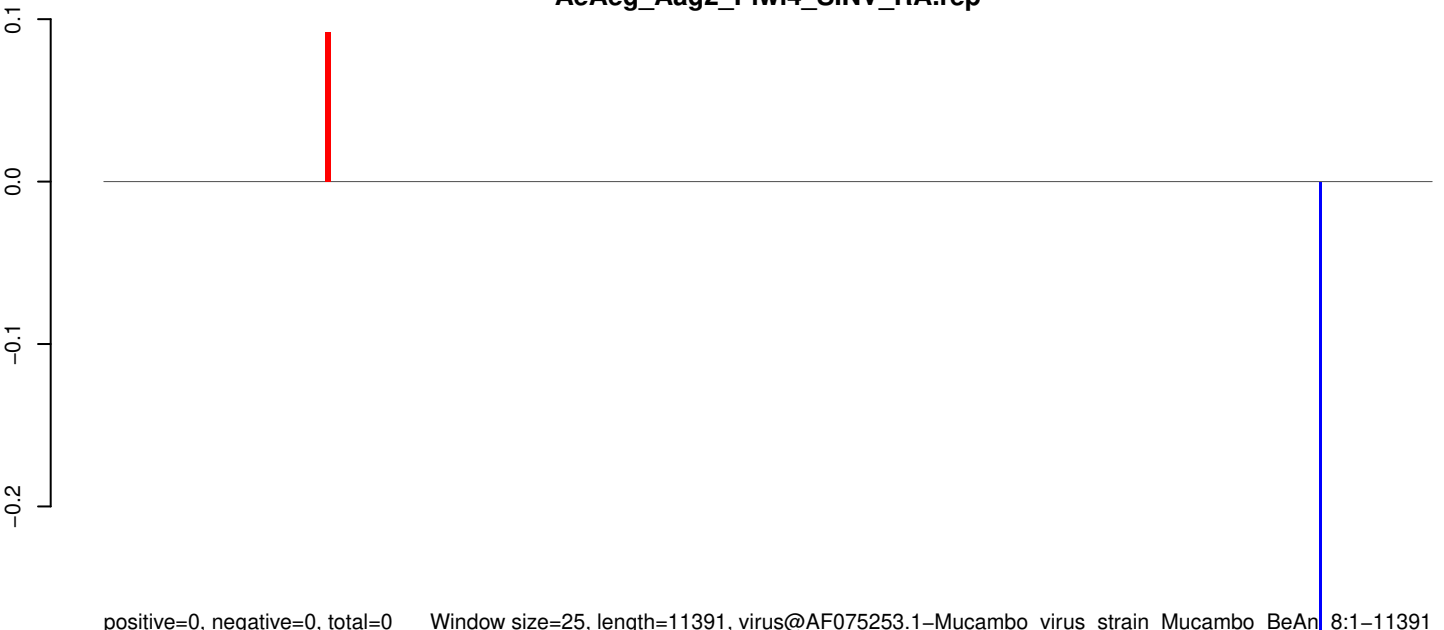
positive=0, negative=0, total=0

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



positive=0, negative=0, total=0

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

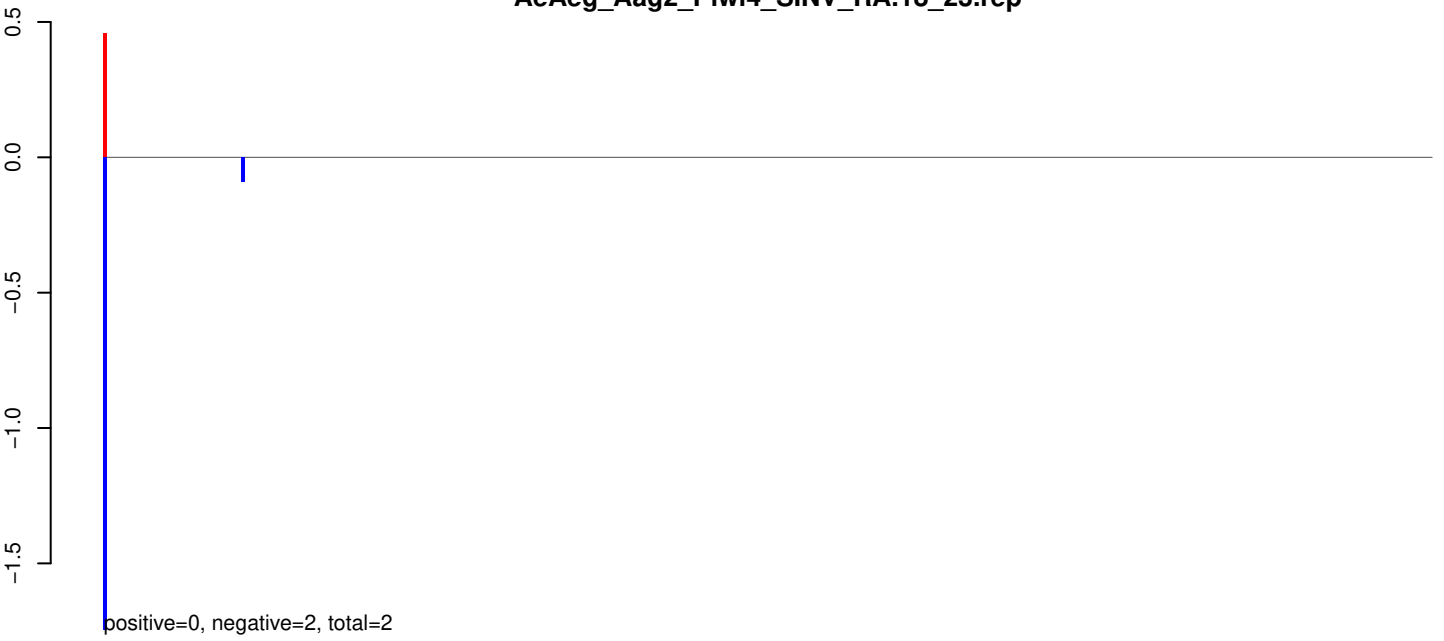


positive=0, negative=0, total=0

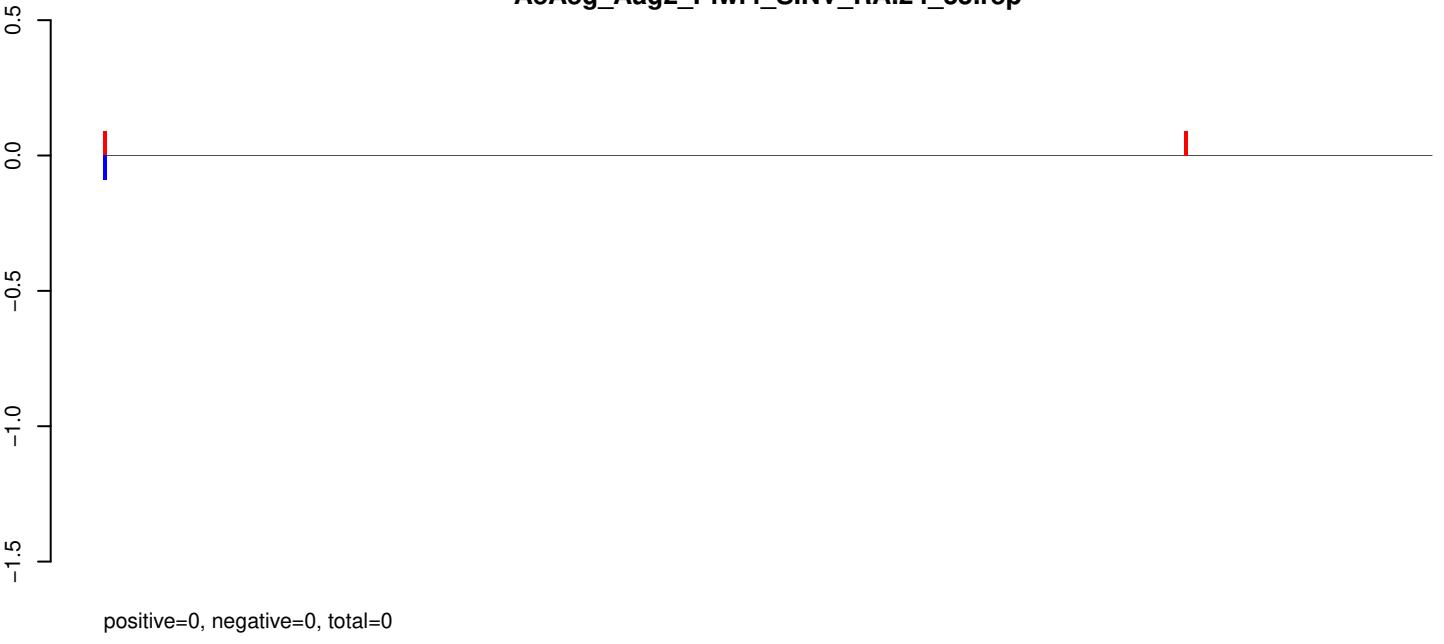
Window size=25, length=11391, virus@AF075253.1-Mucambo\_virus\_strain\_Mucambo\_BeAn\_8:1-11391

0 2000 4000 6000 8000 10000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



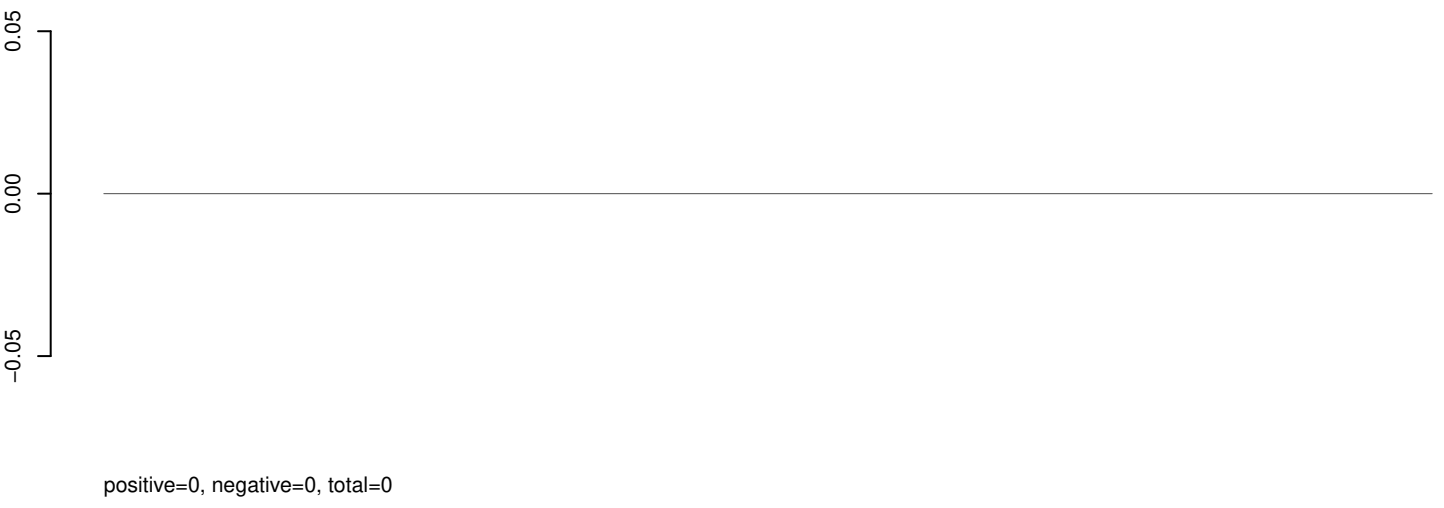
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



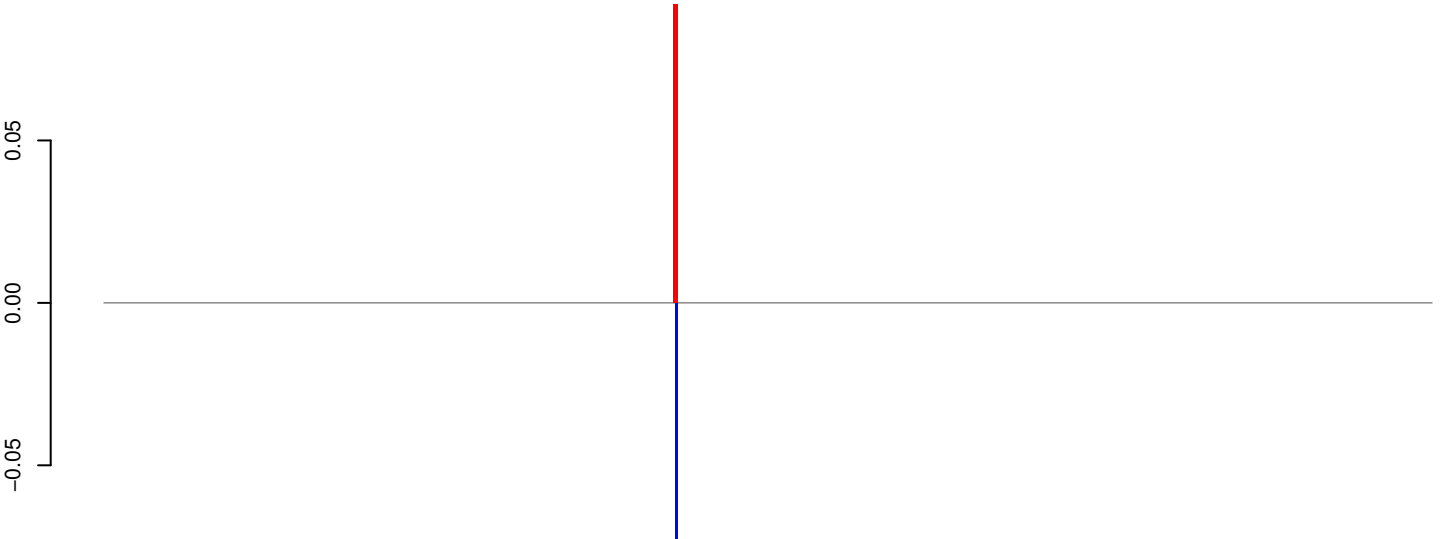
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



size=25, length=13593, positive=0, negative=0, total=0, NC\_0034534.1-Rochambeau\_virus\_nucleoprotein\_phosphoprotein\_matrix\_hypothetical\_proteins\_glycopr:1-13593

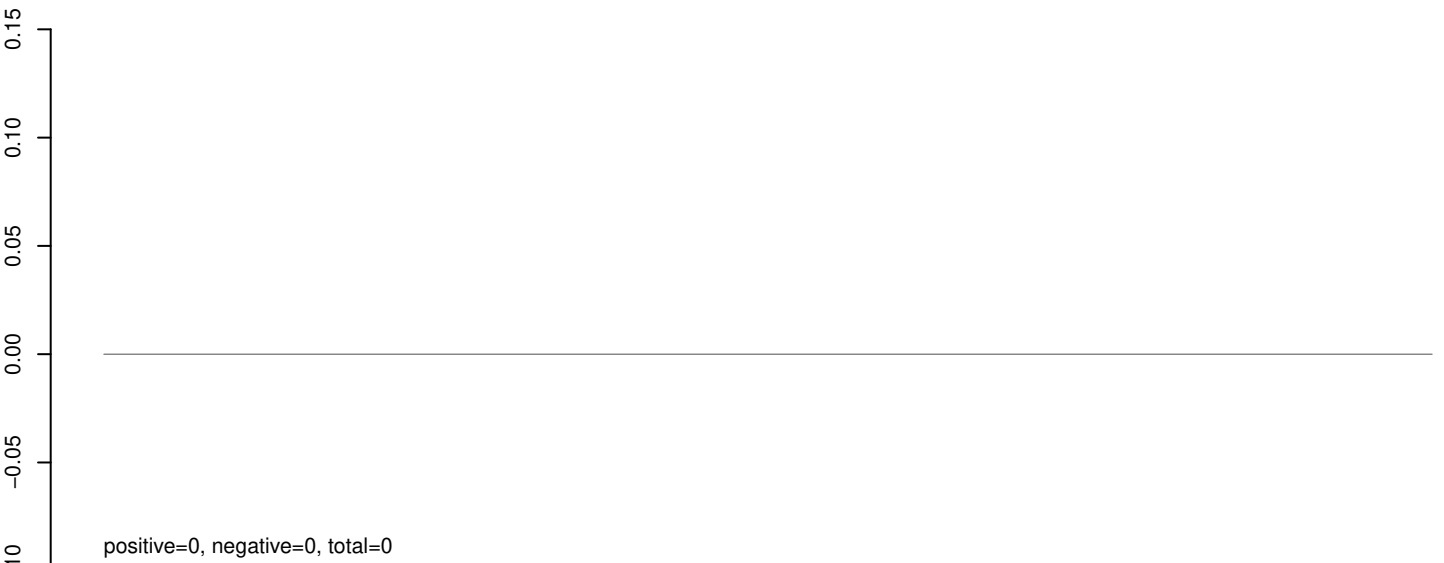
0 2000 4000 6000 8000 10000 12000 14000



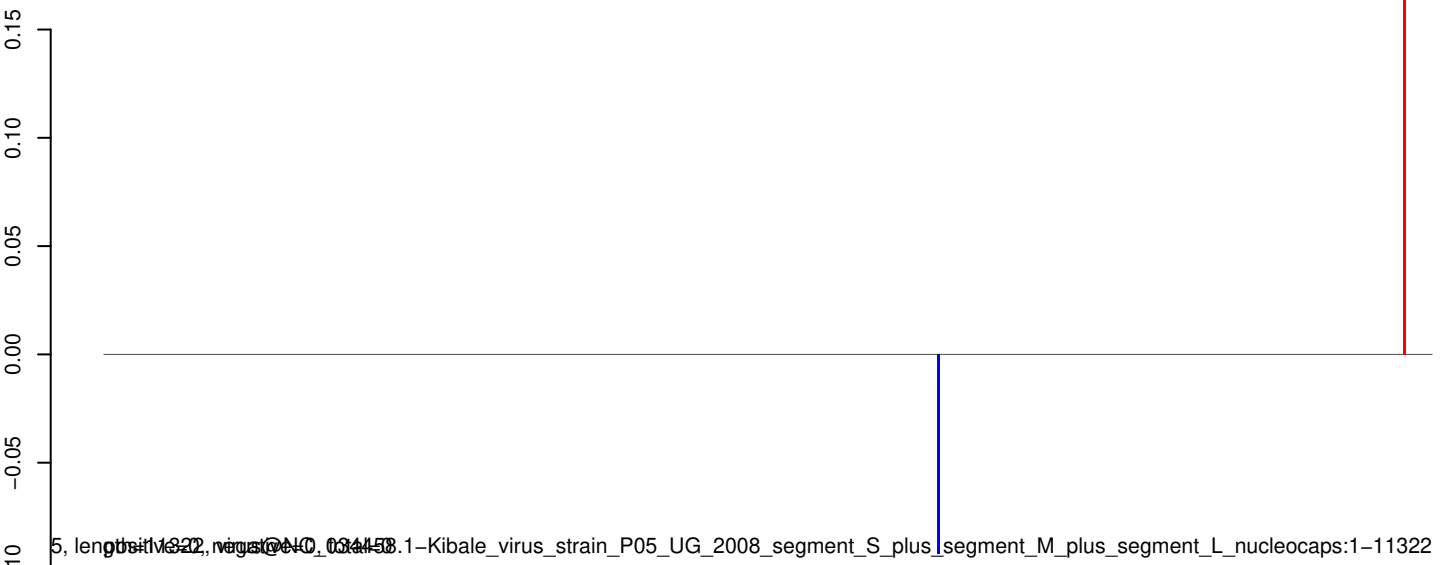
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

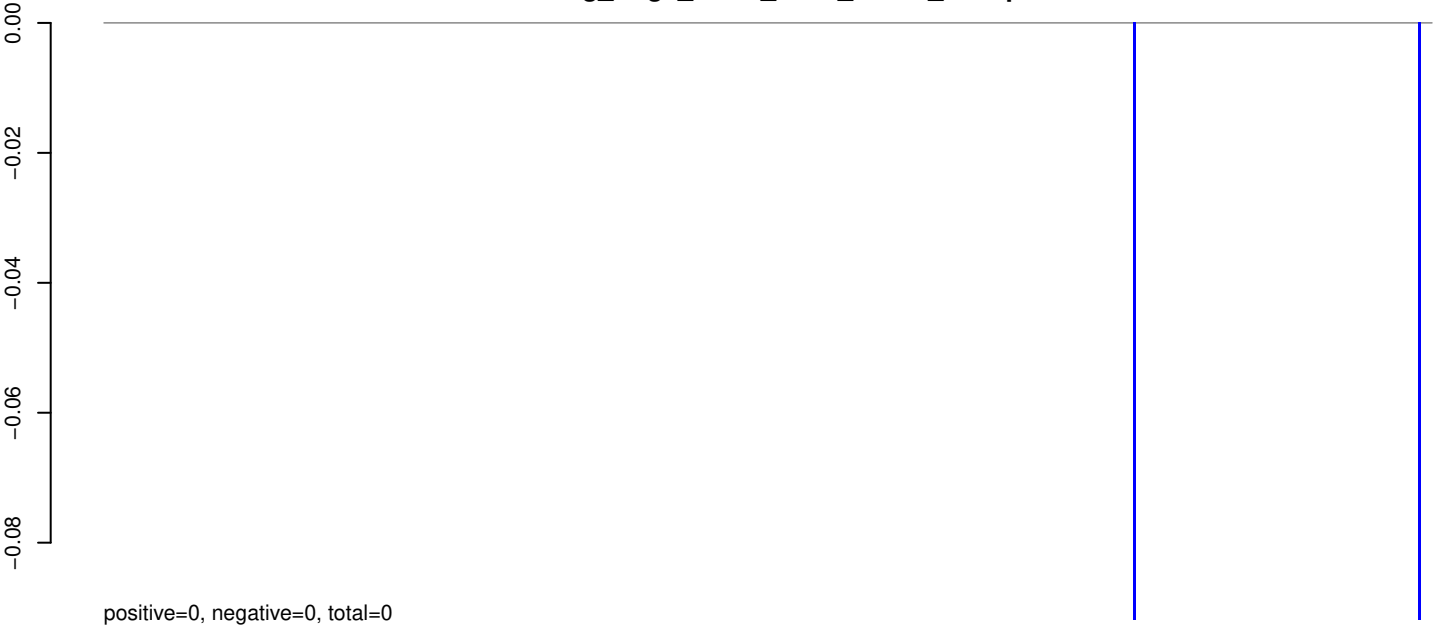


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

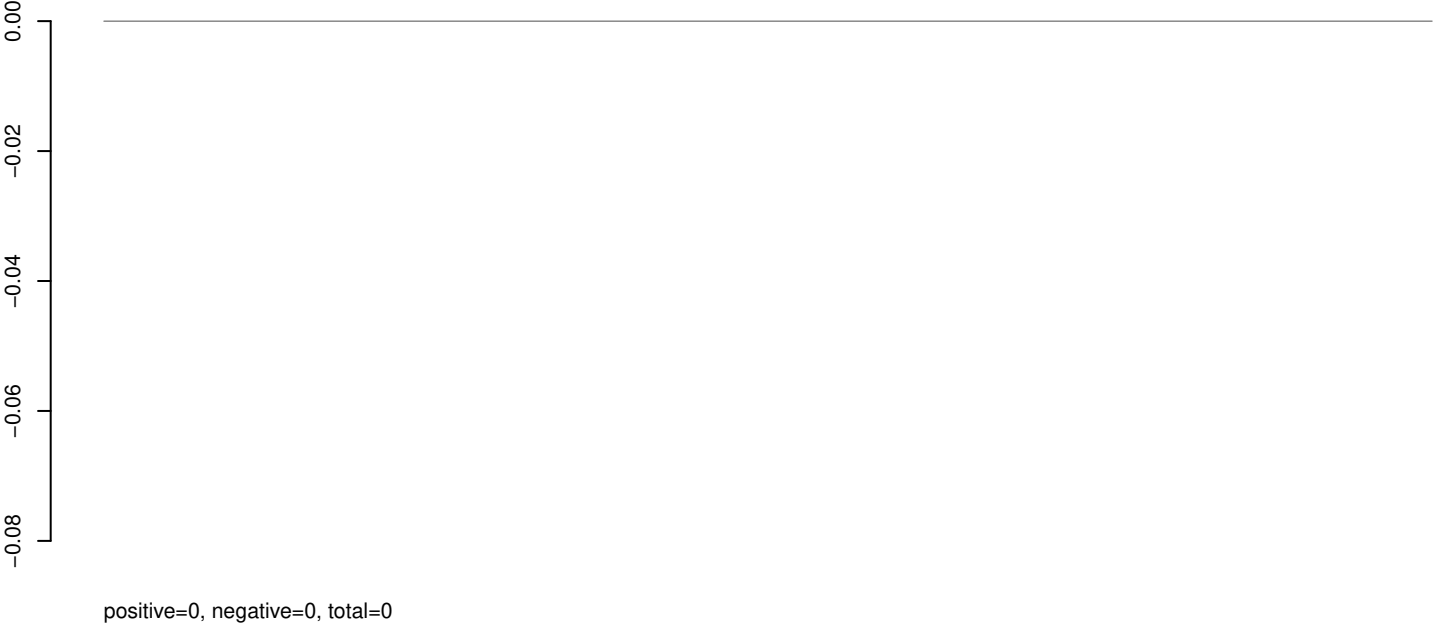


0 2000 4000 6000 8000 10000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



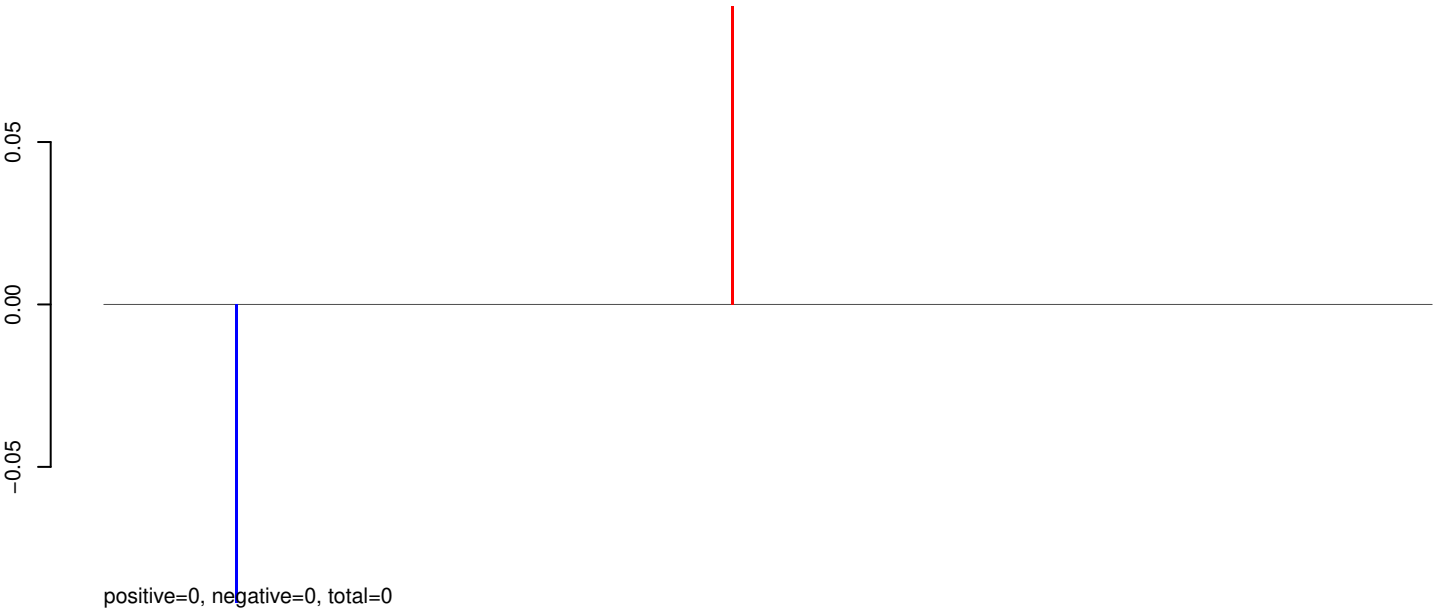
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



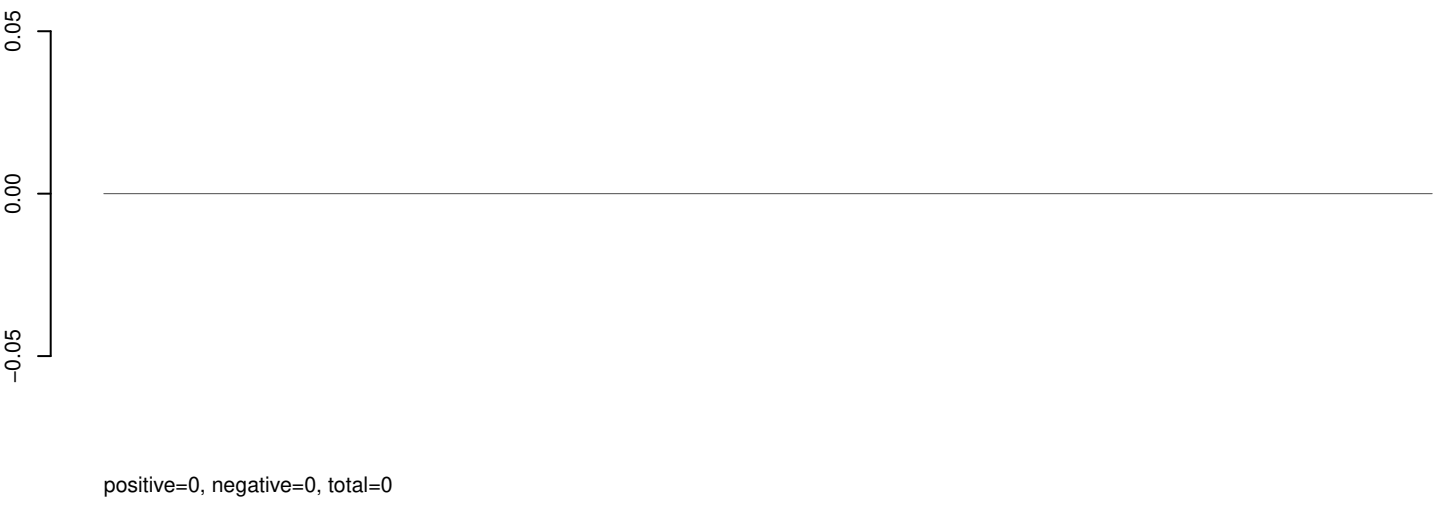
25, length=11728, range=[0, 11728], total=0, positive=0, negative=0, total=0

0 2000 4000 6000 8000 10000 12000

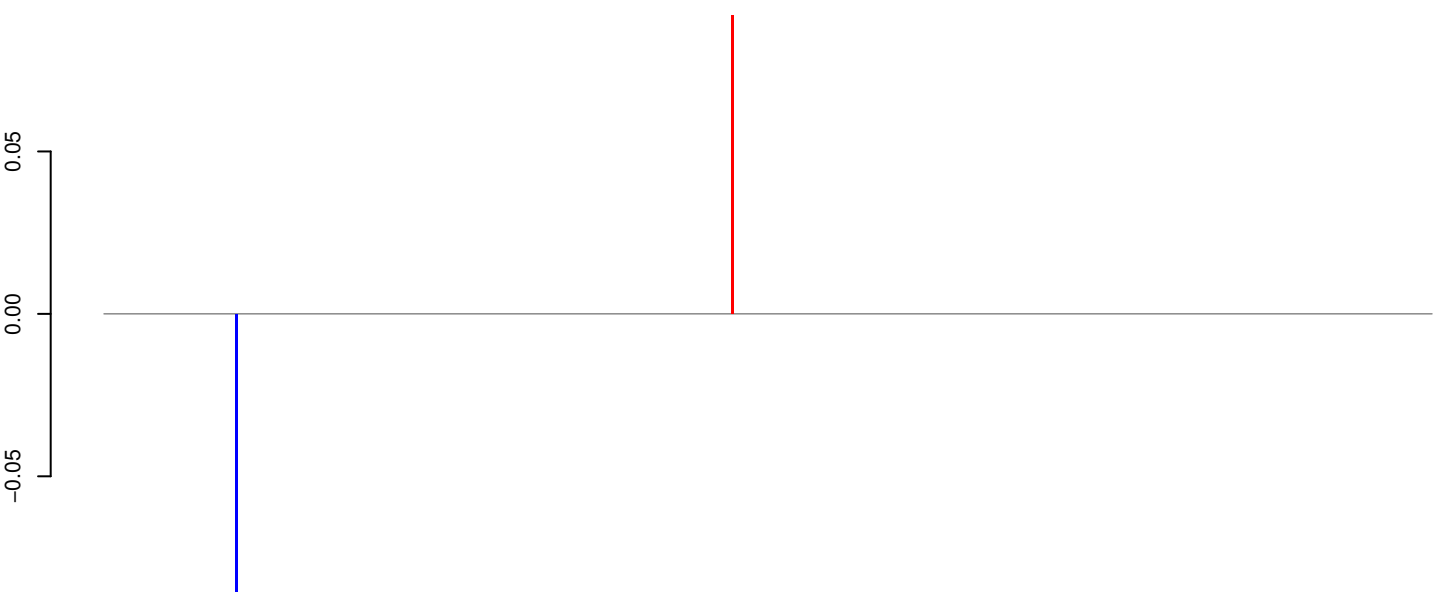
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



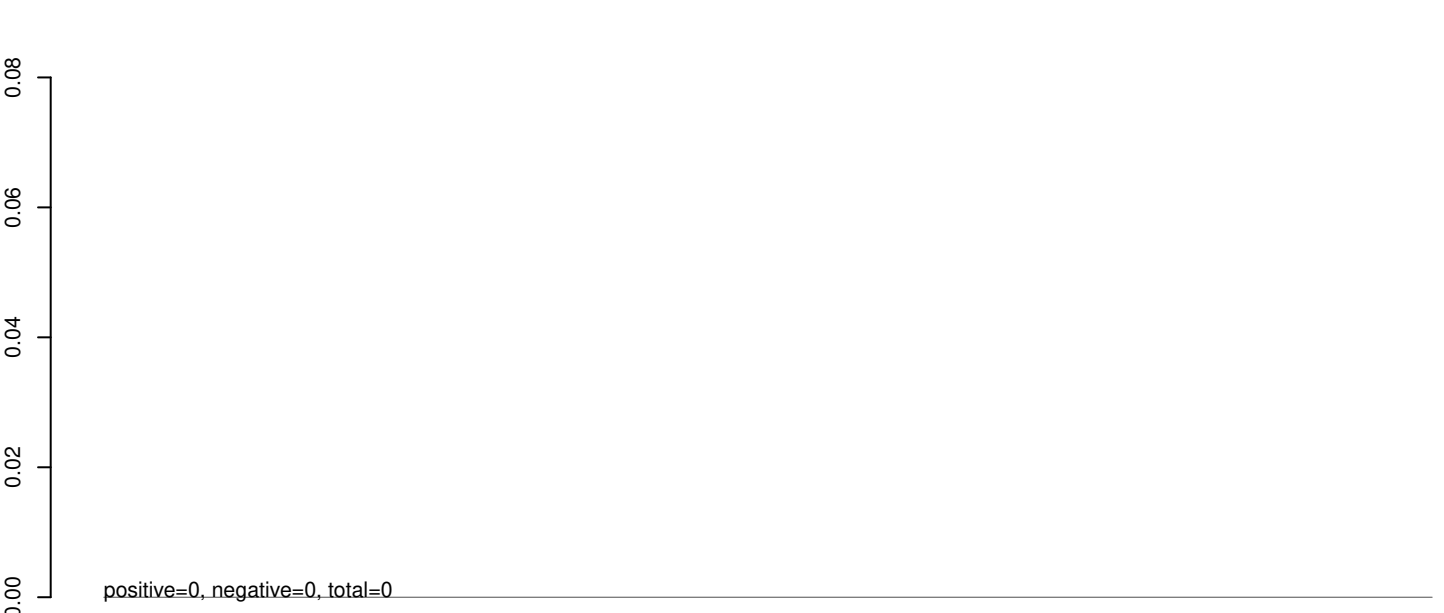
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



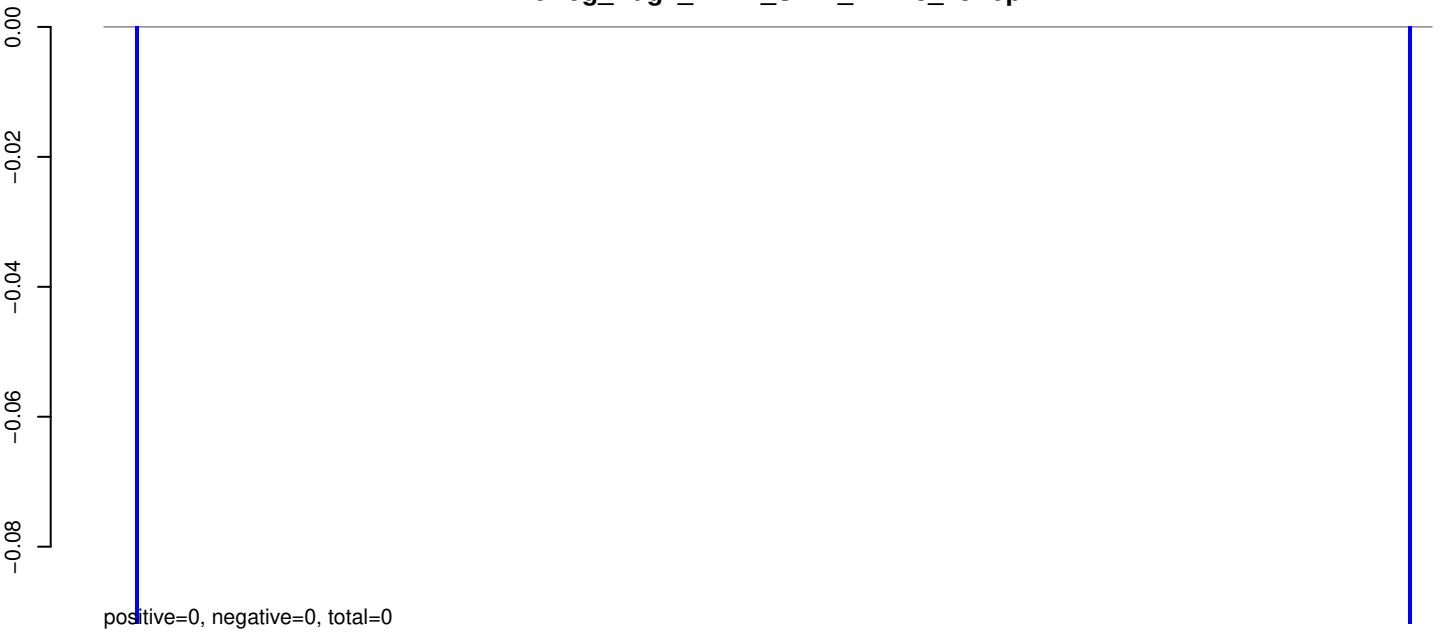
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



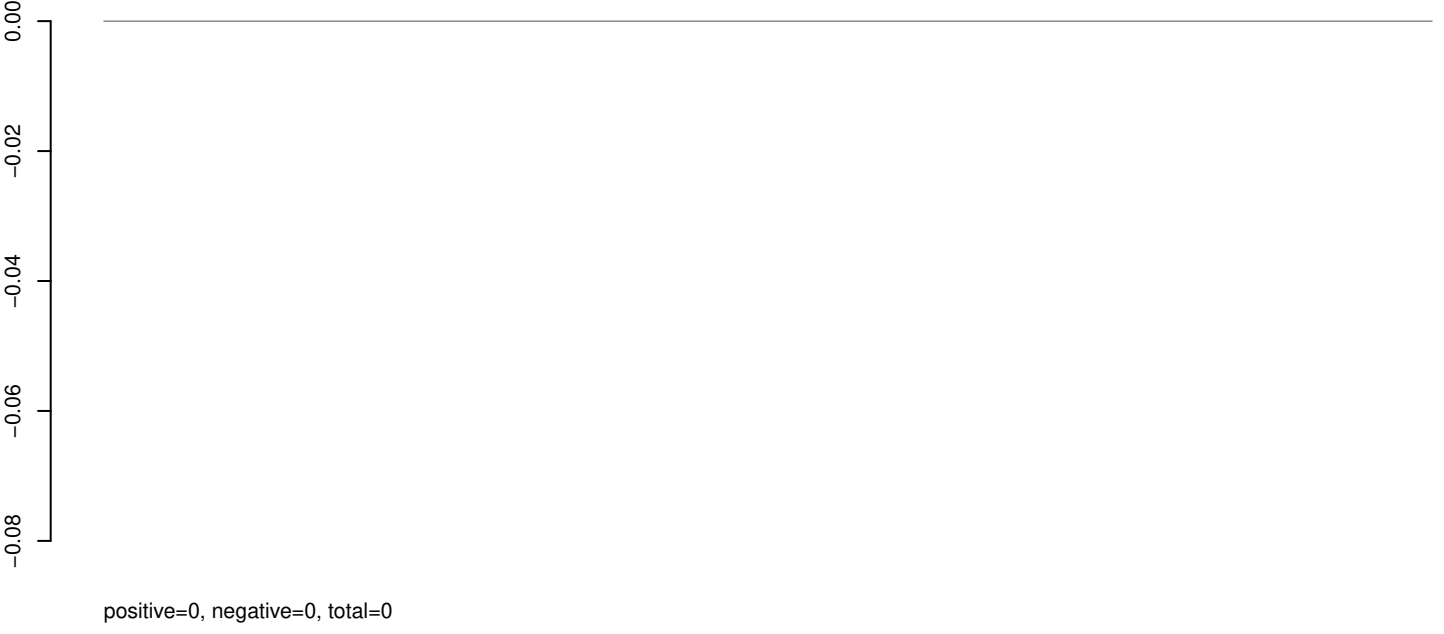
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



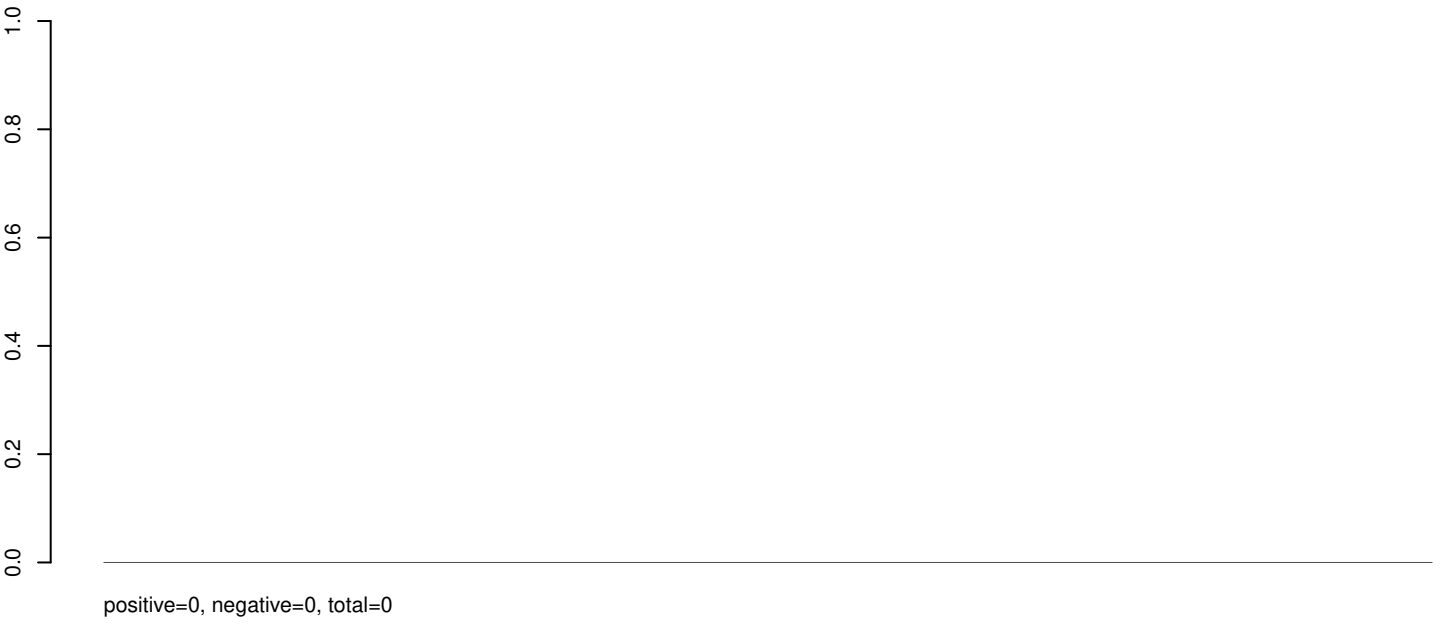
blinded, size=25, length=958, virus@NC\_033716.1\_Zhejiang\_mosquito\_virus\_1\_strain\_mosZJ35497\_hypothetical\_protein\_gene:1-958

0 2000 4000 6000 8000

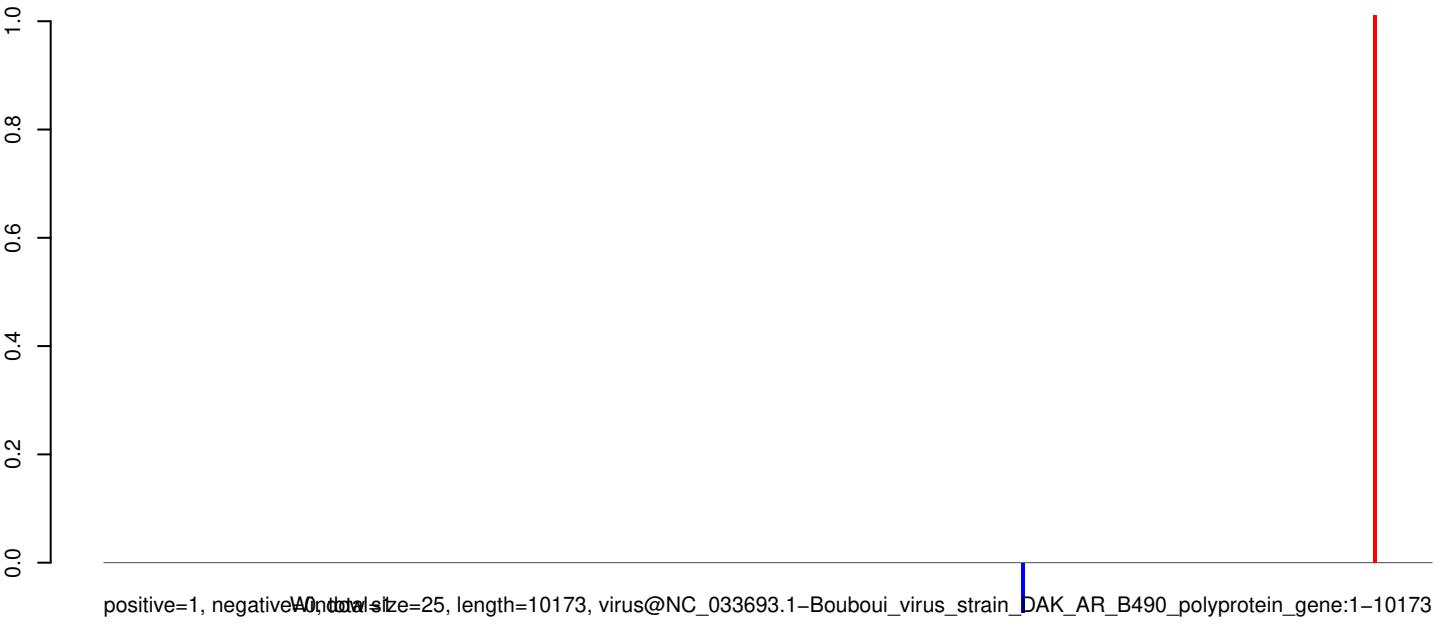
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



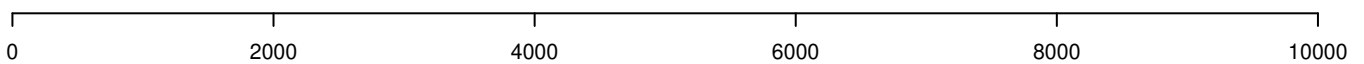
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



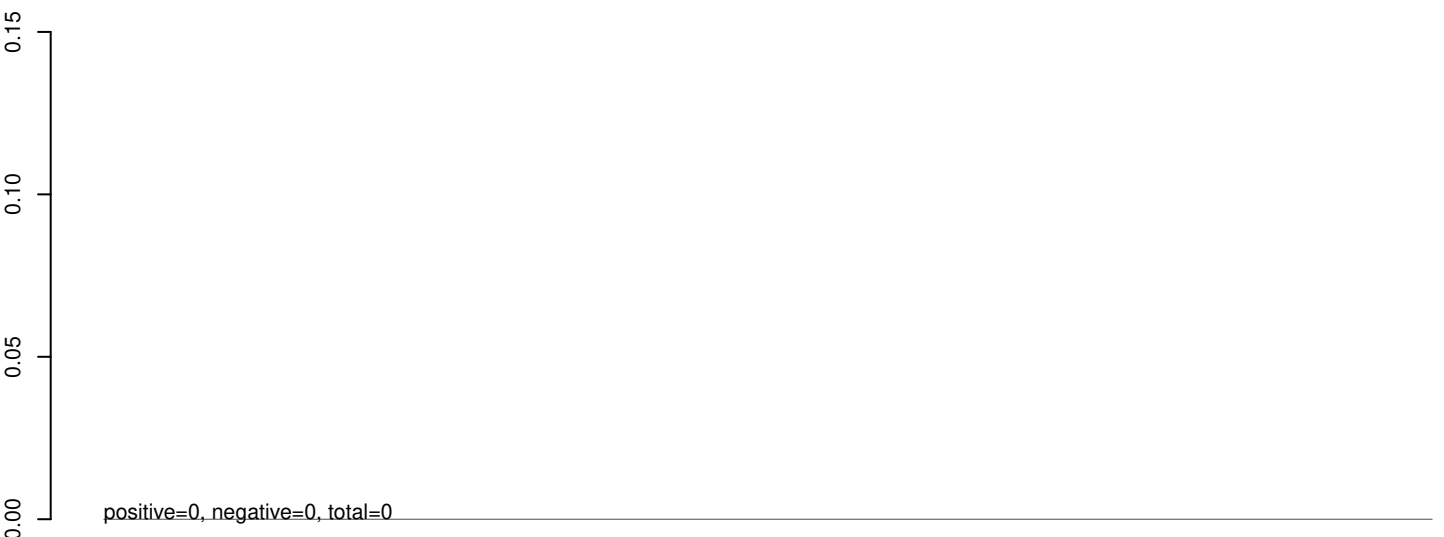
total size=25, length=10173, virus@NC\_033693.1-Bouboui\_virus\_strain\_DAK\_AR\_B490\_polyprotein\_gene:1-10173



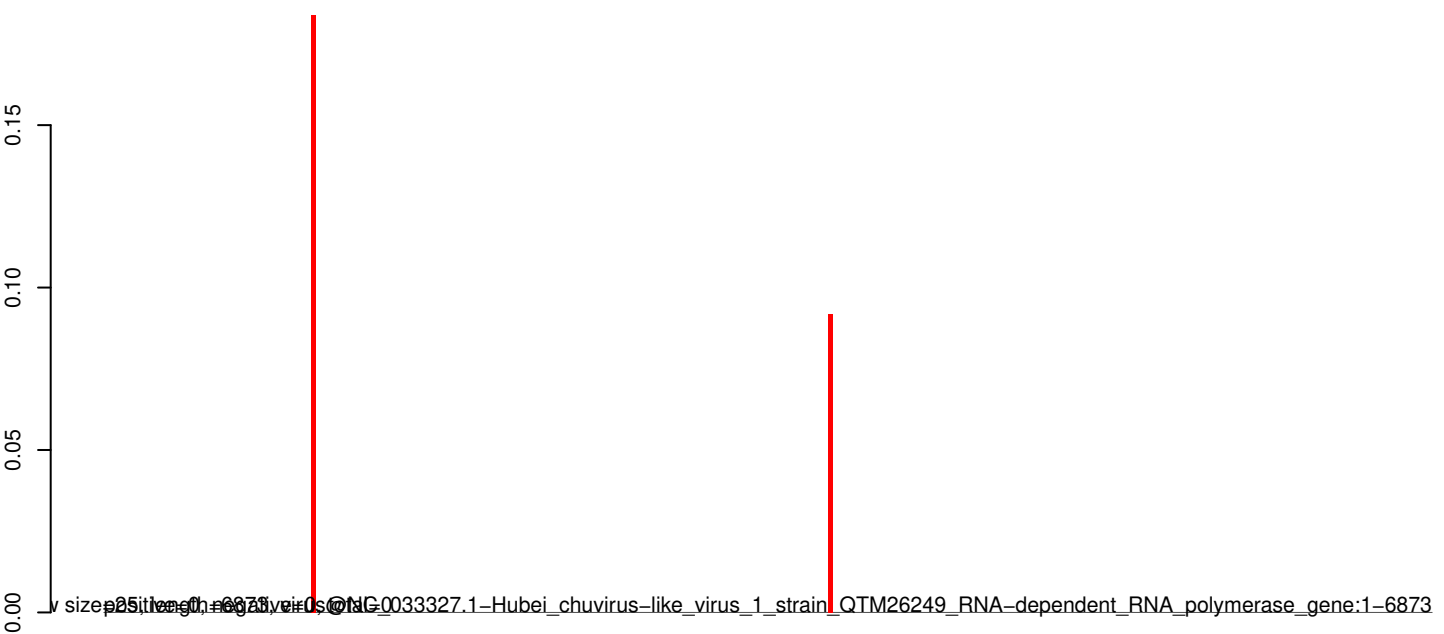
AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep



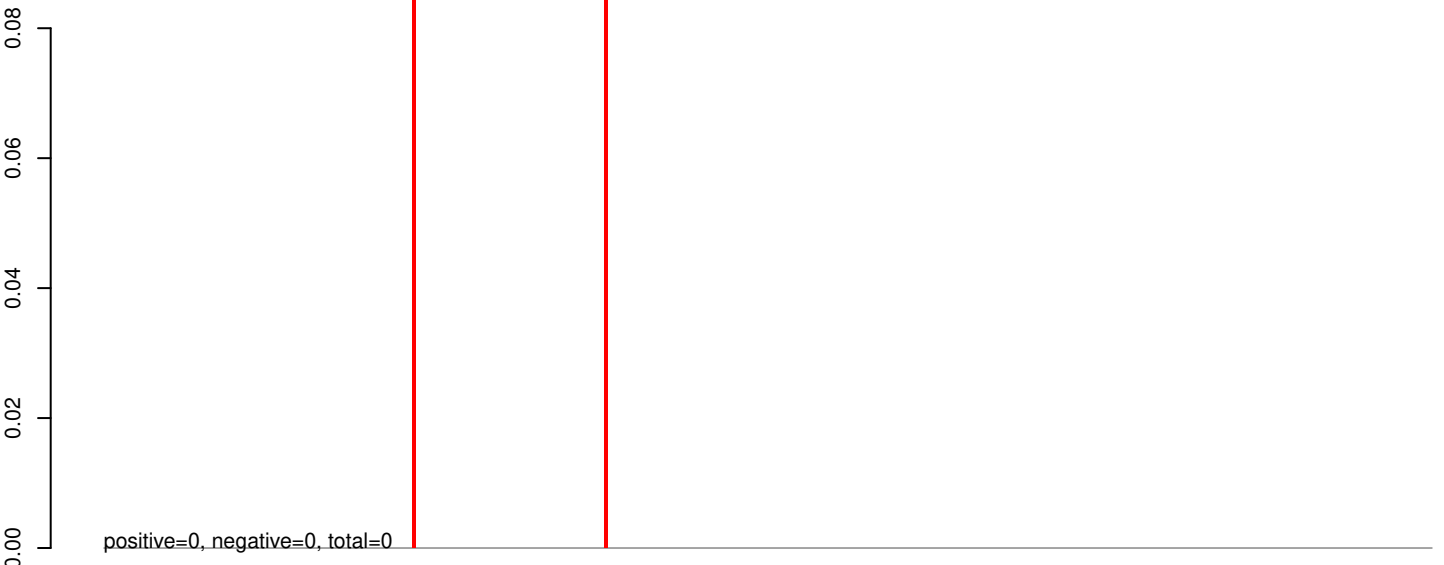
AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep



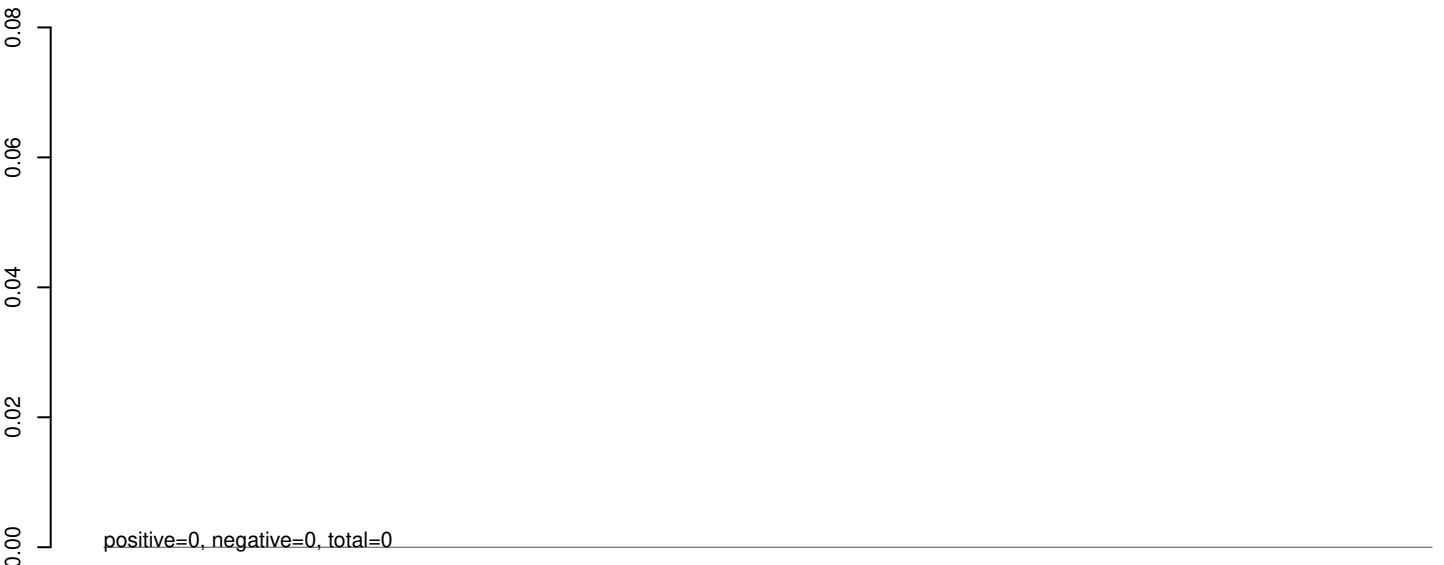
AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep



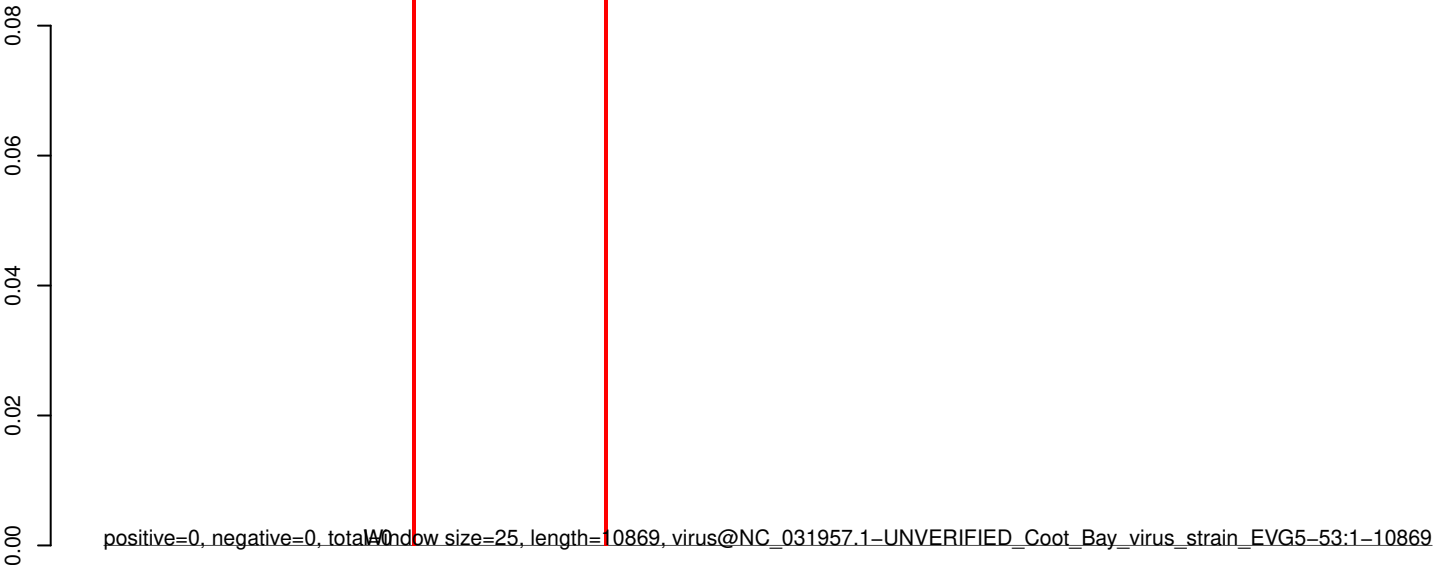
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

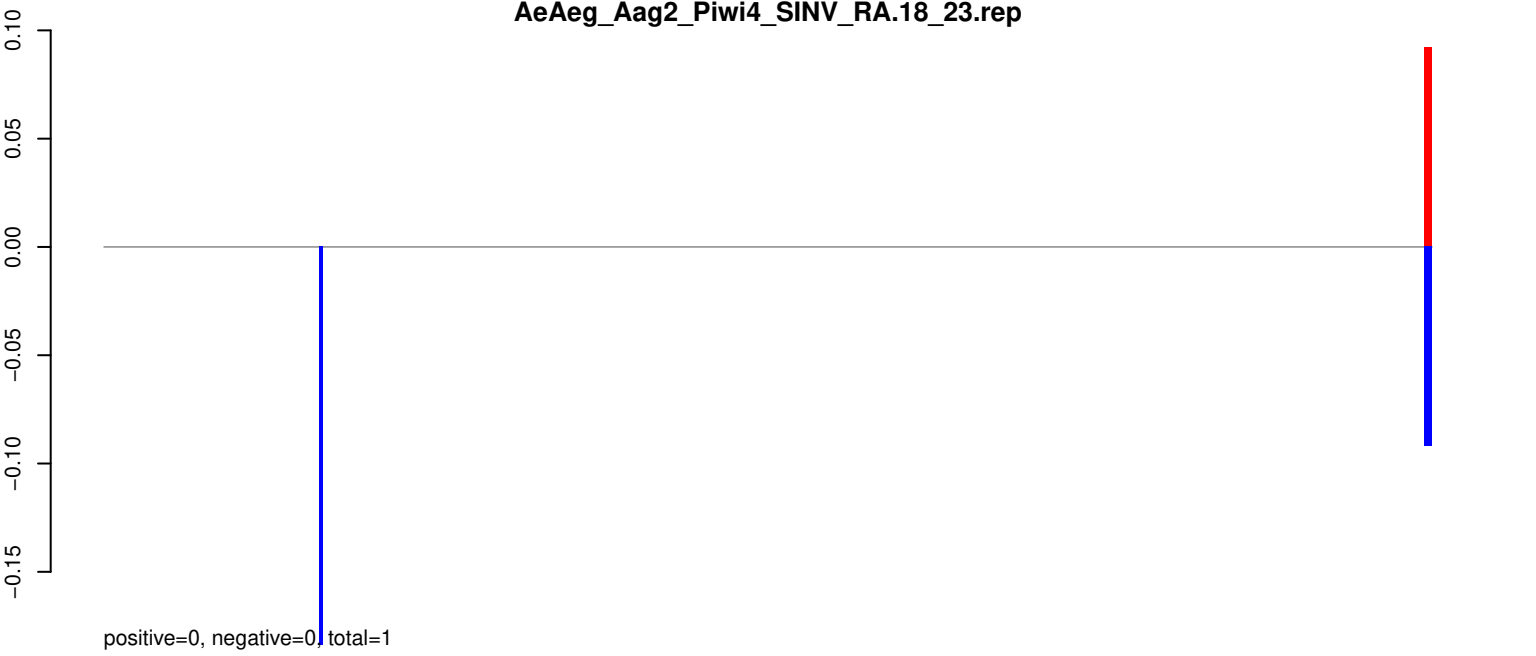


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

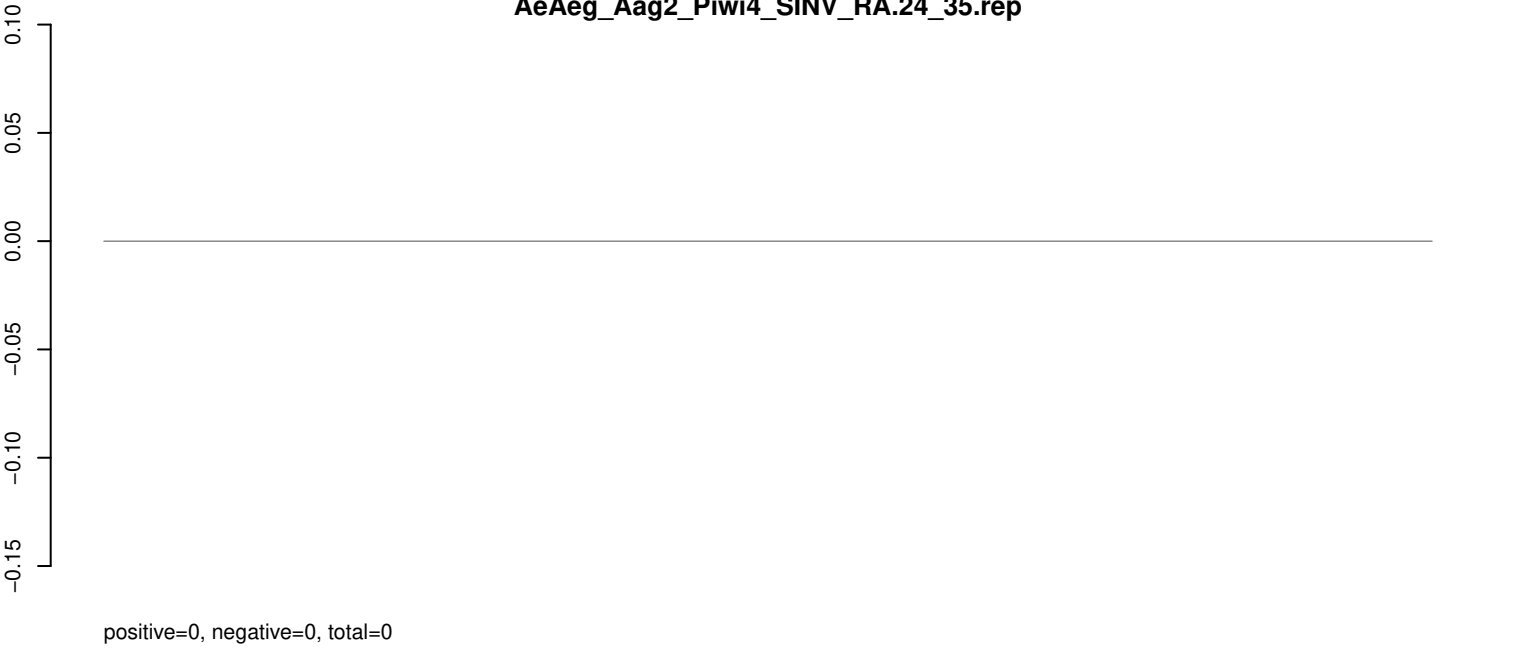




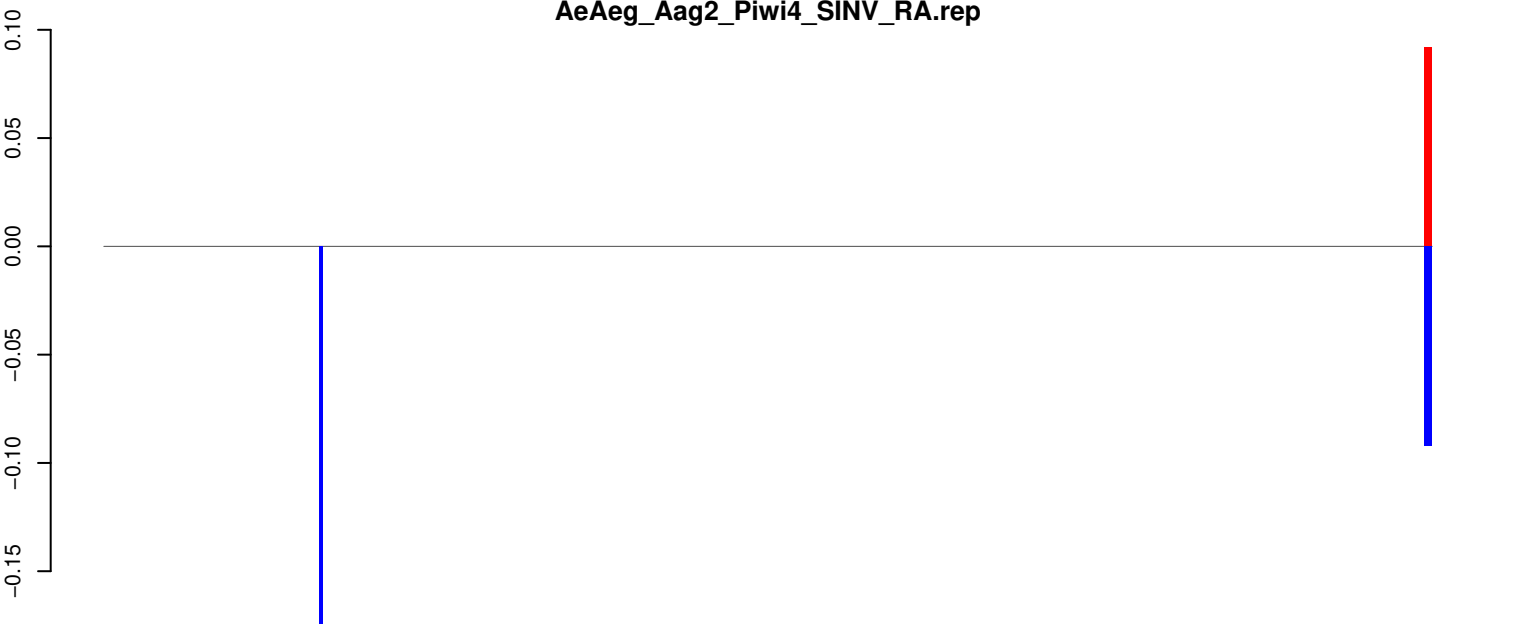
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



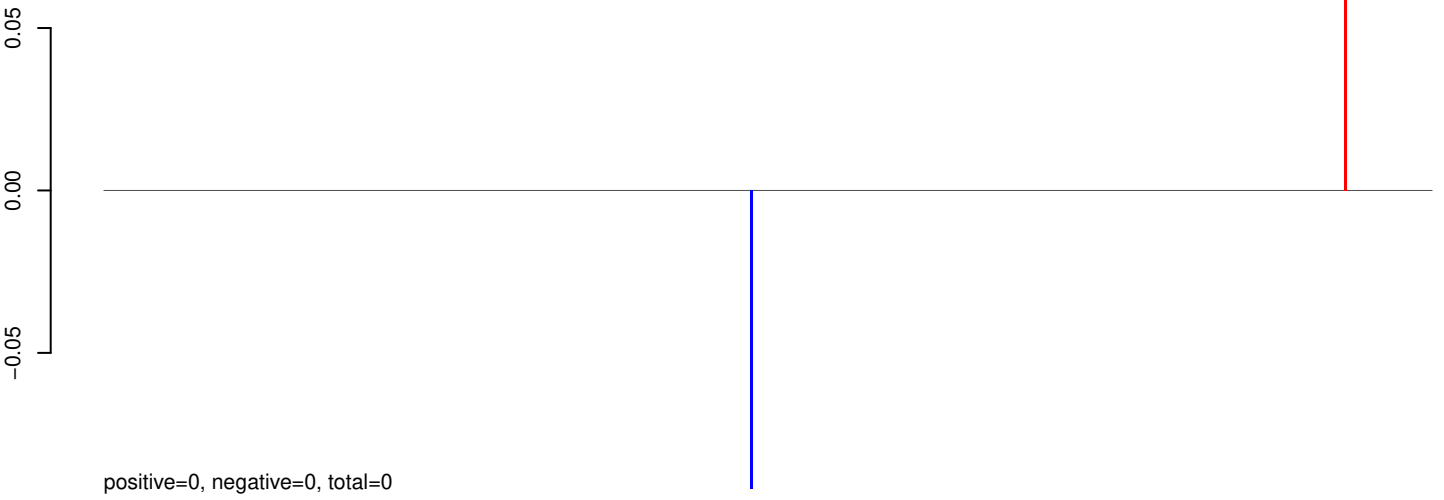
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



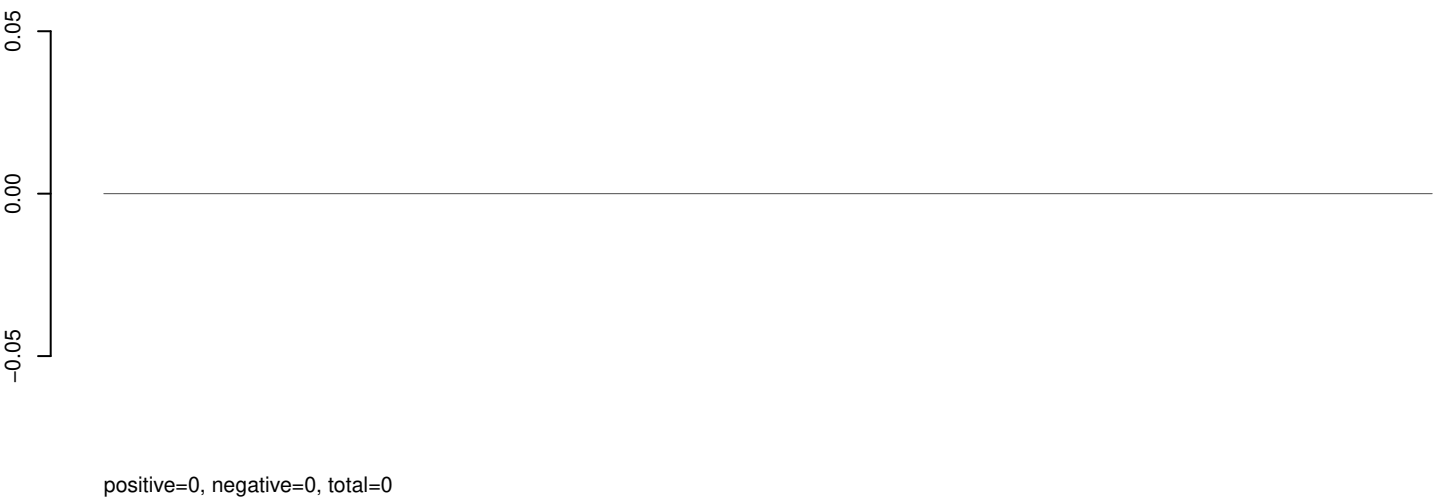
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



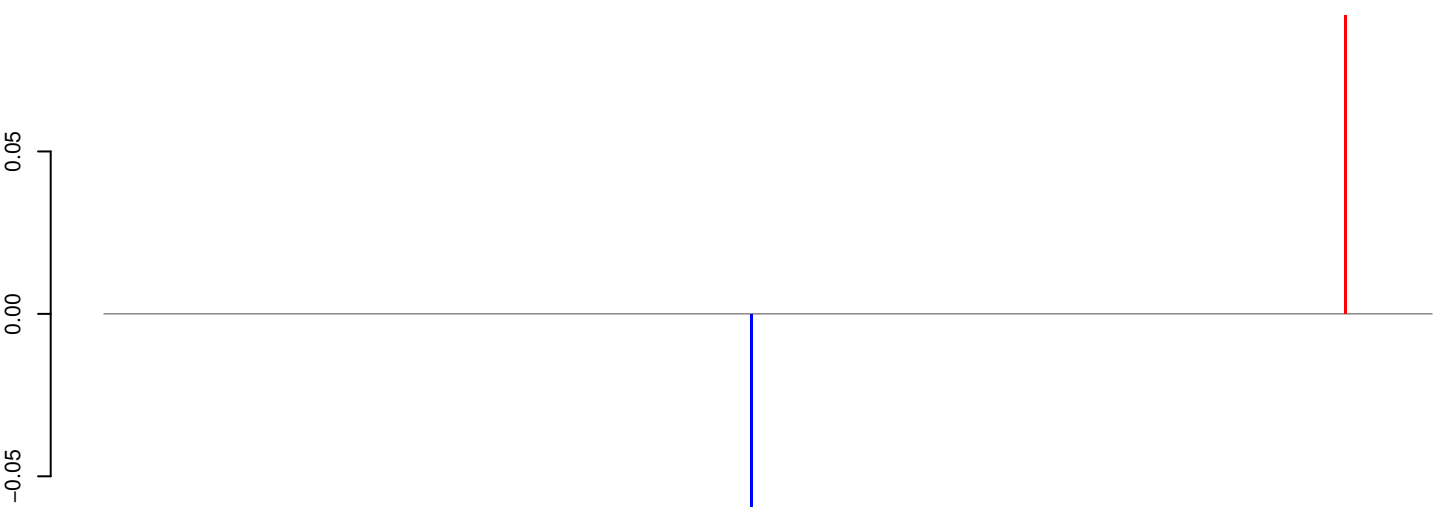
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



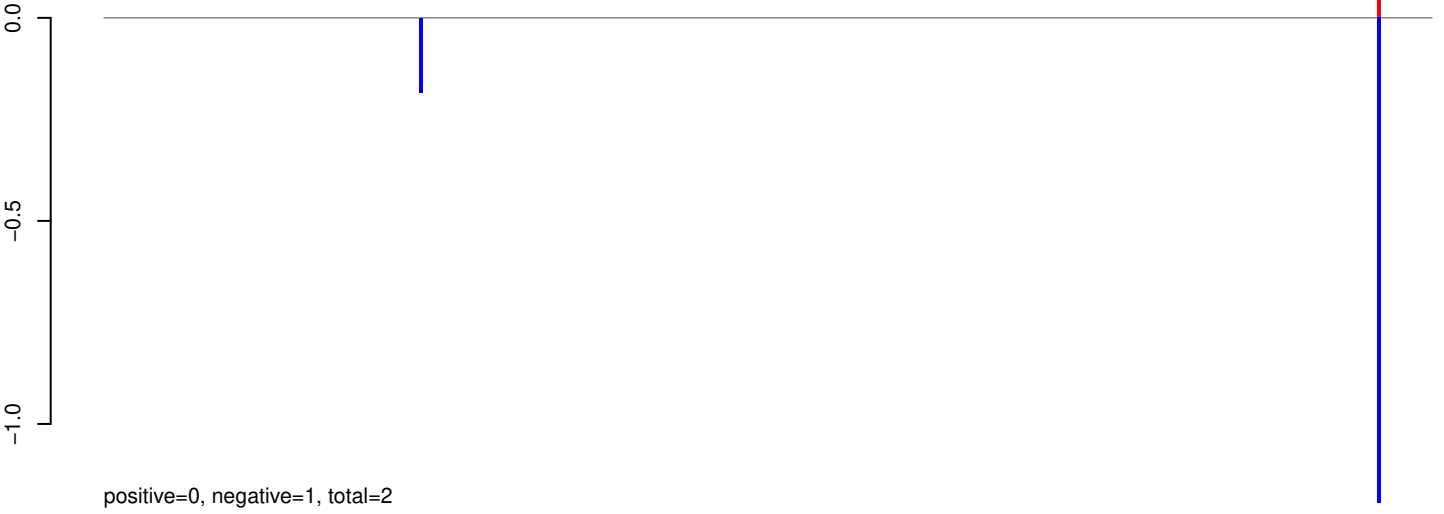
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



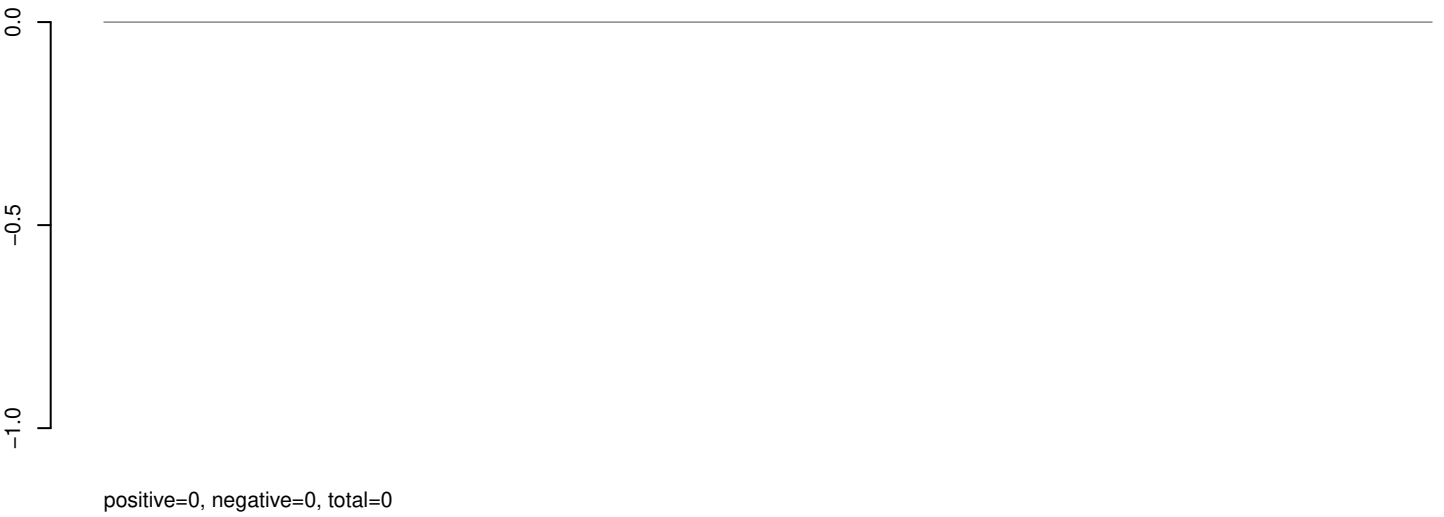
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



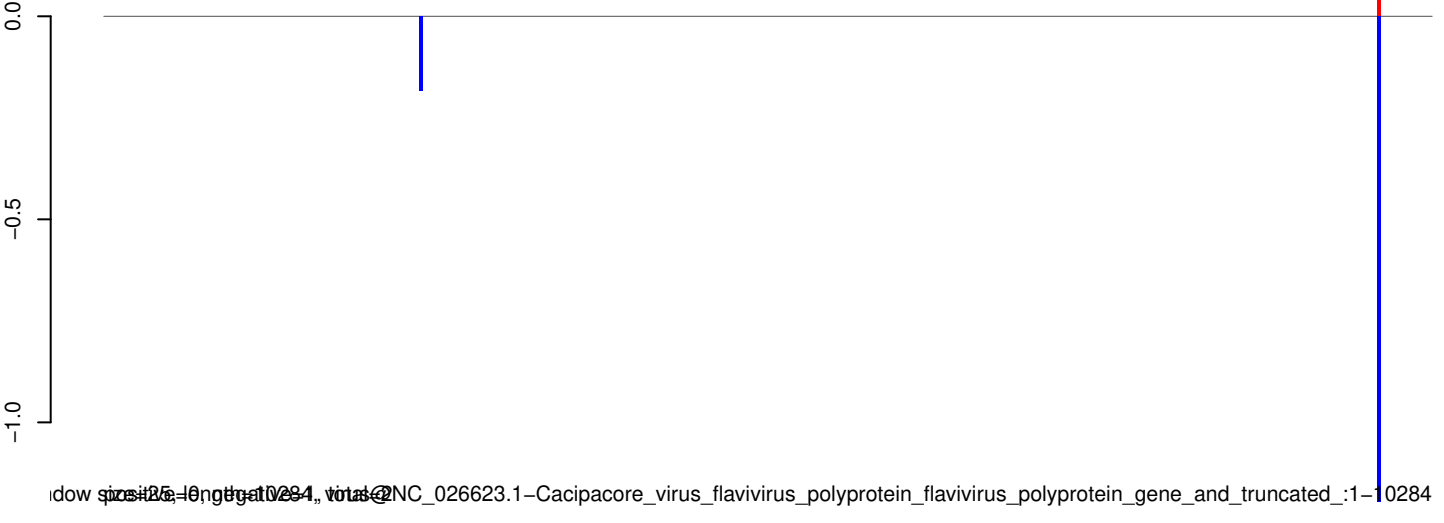
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



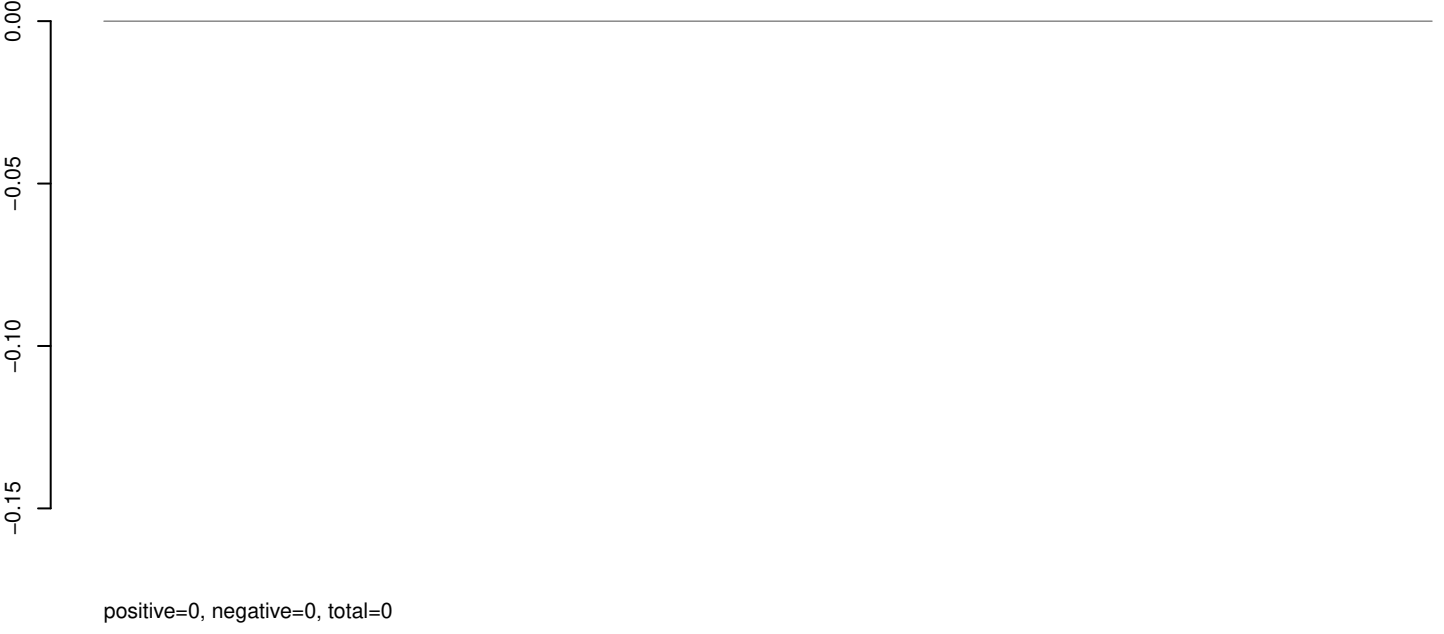
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



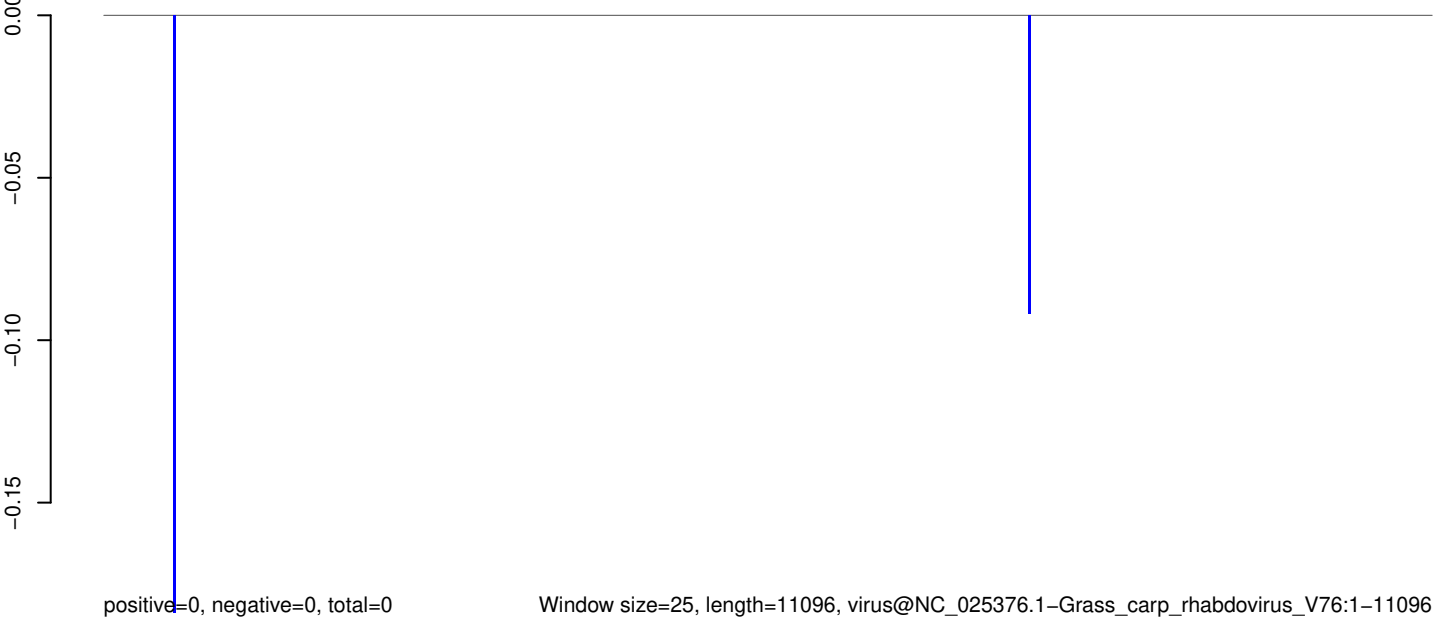
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



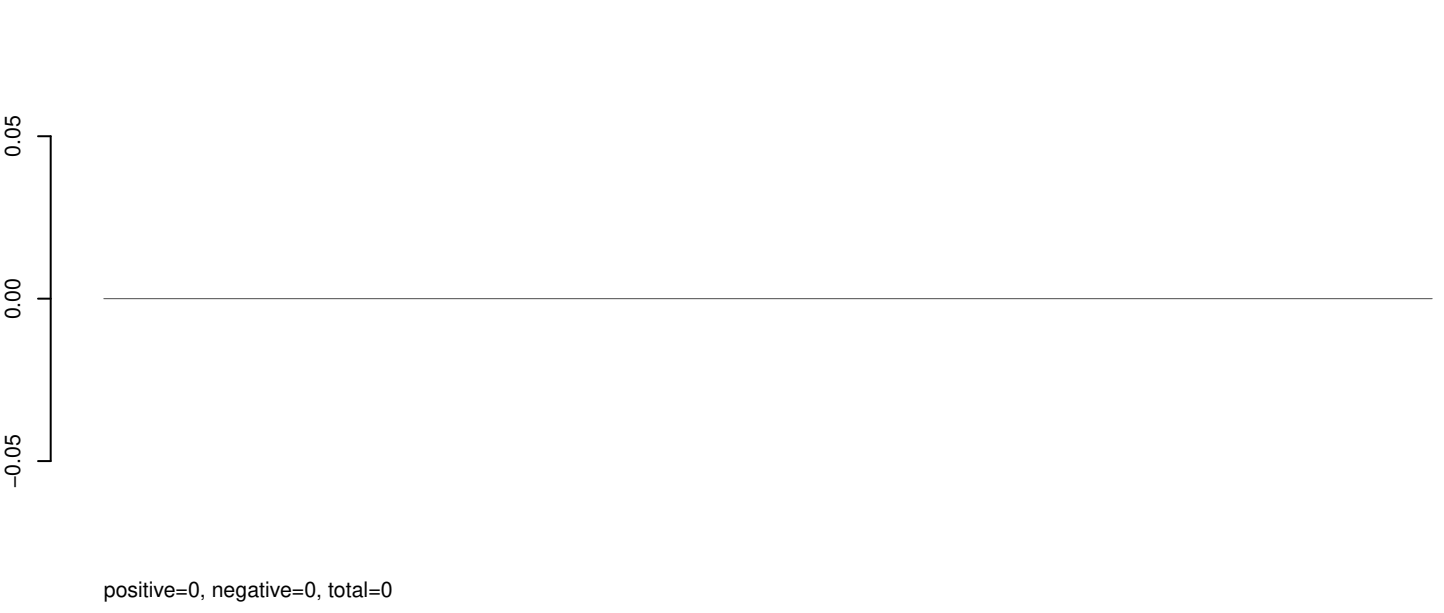
Window size=25, length=11096, virus@NC\_025376.1-Grass\_carp\_rhabdovirus\_V76:1-11096

0 2000 4000 6000 8000 10000

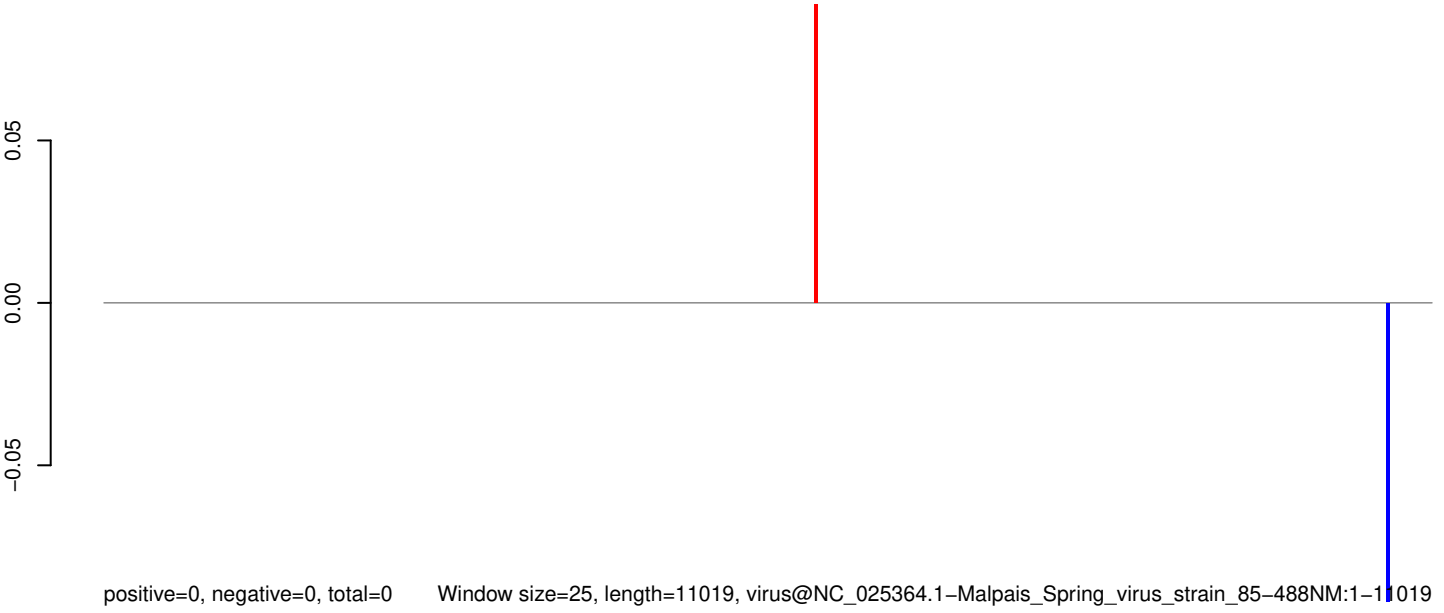
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



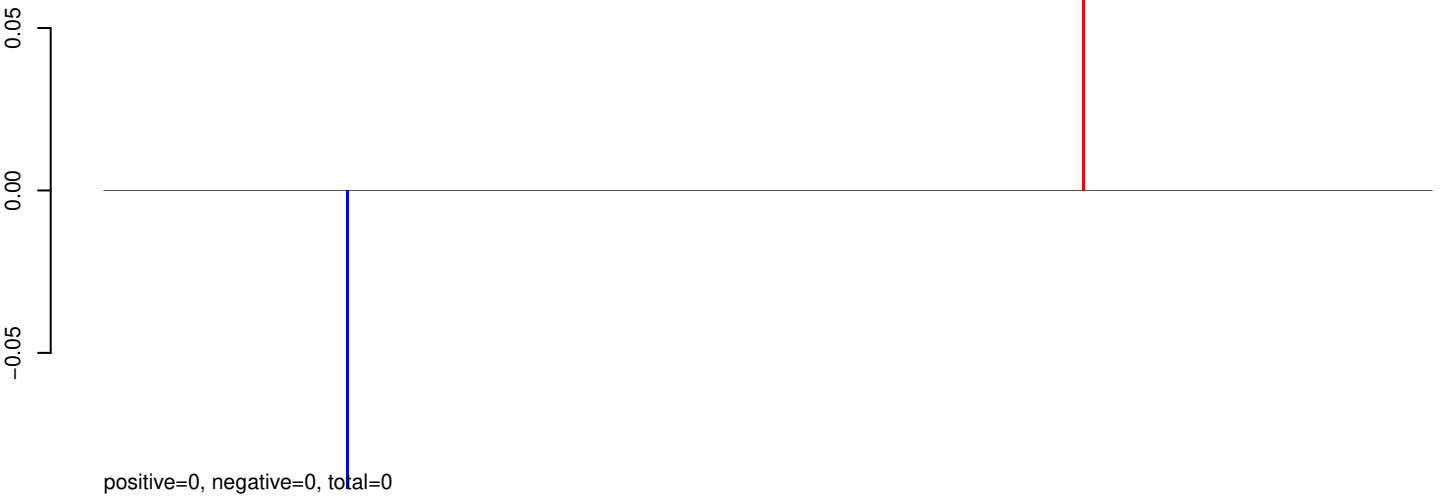
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



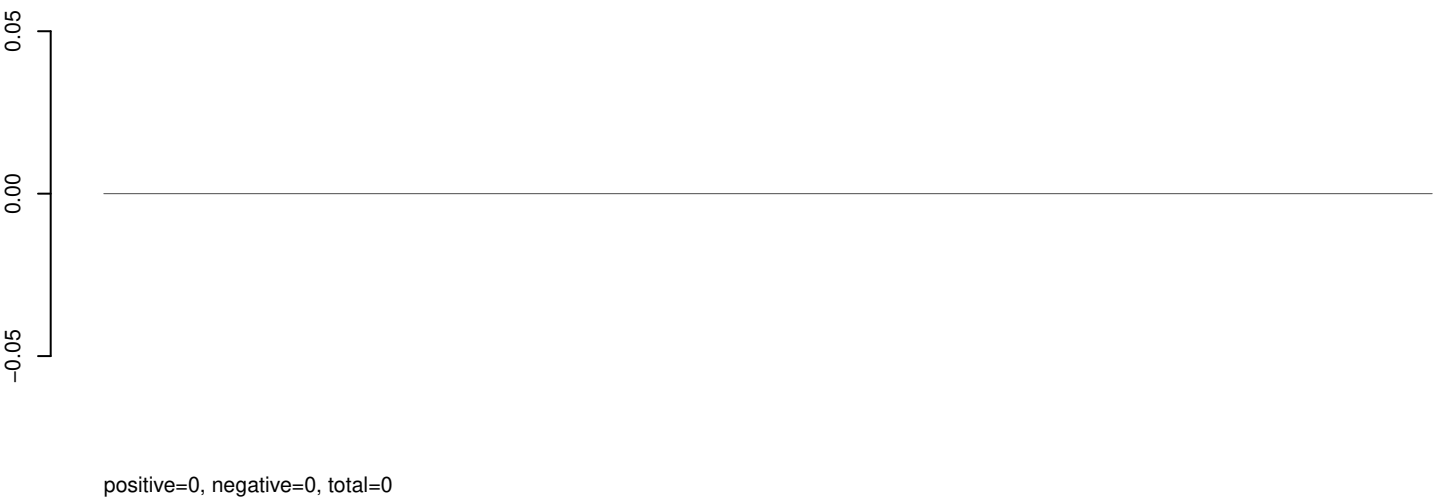
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



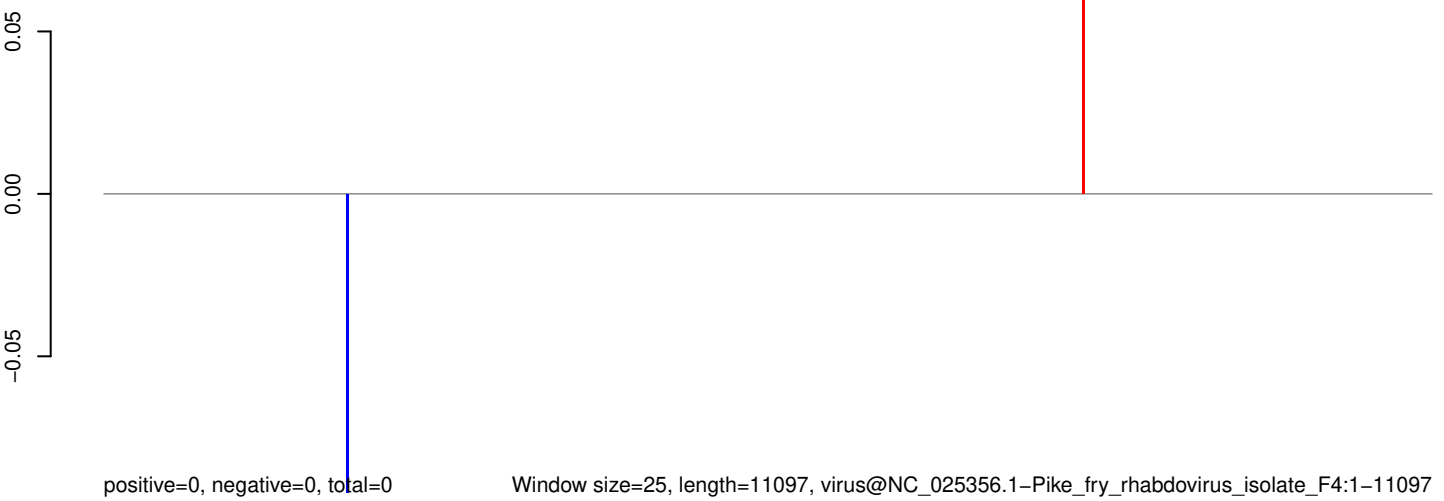
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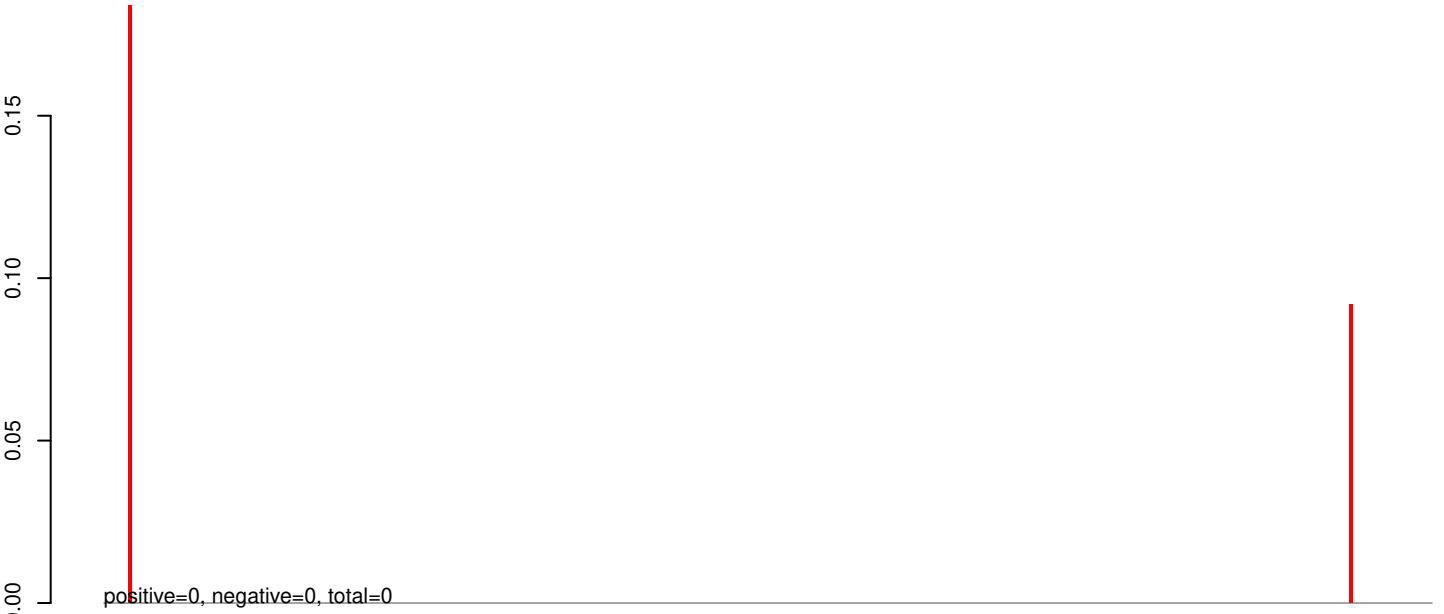
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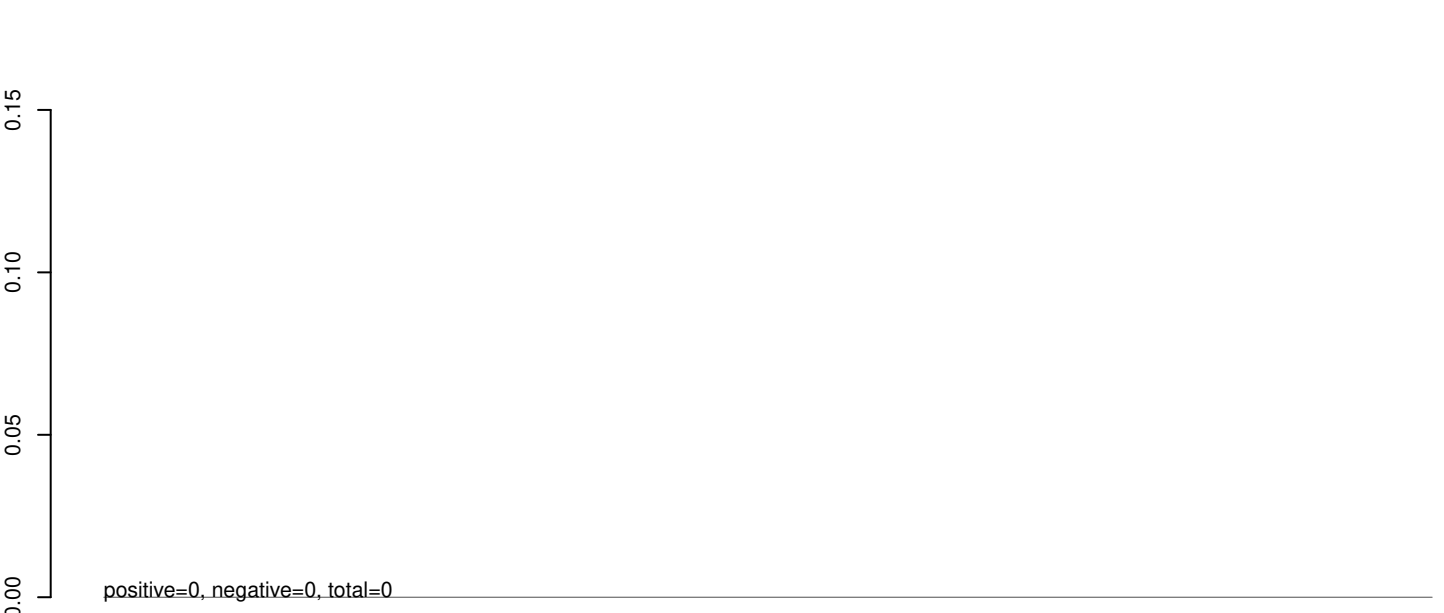
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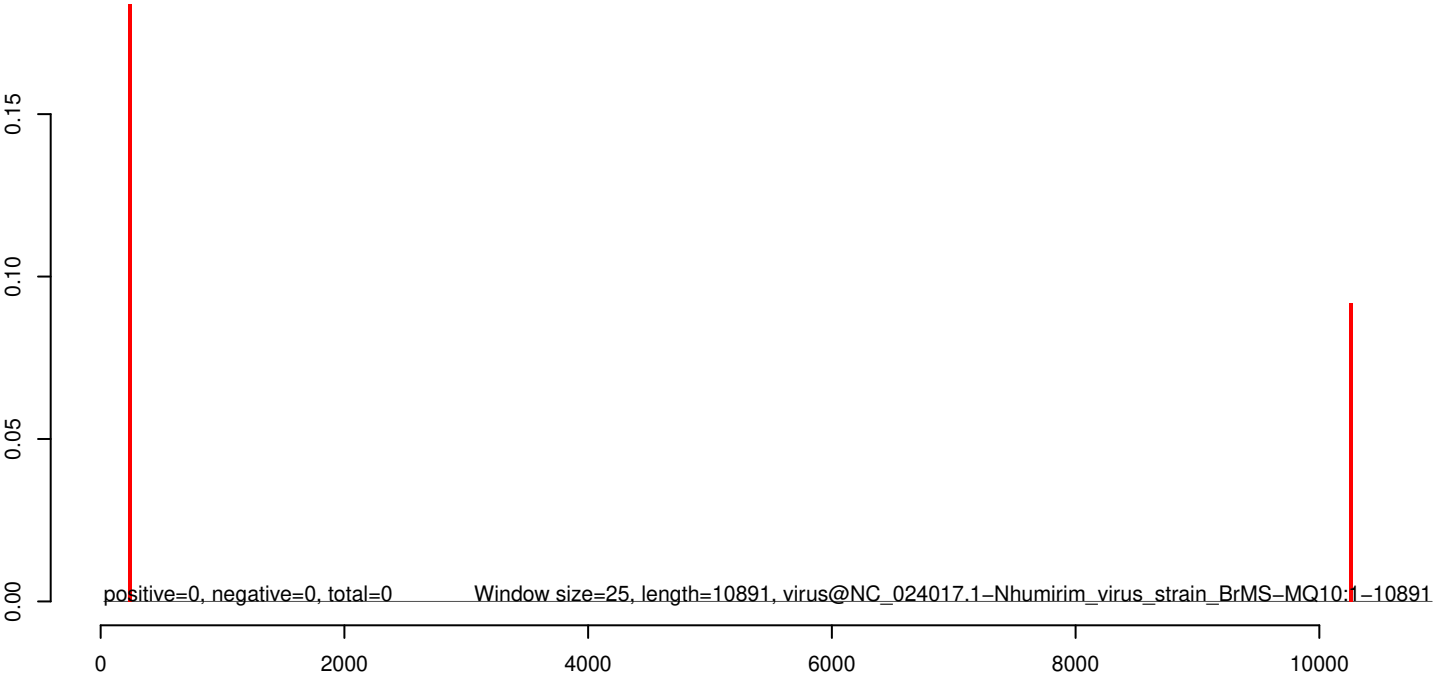
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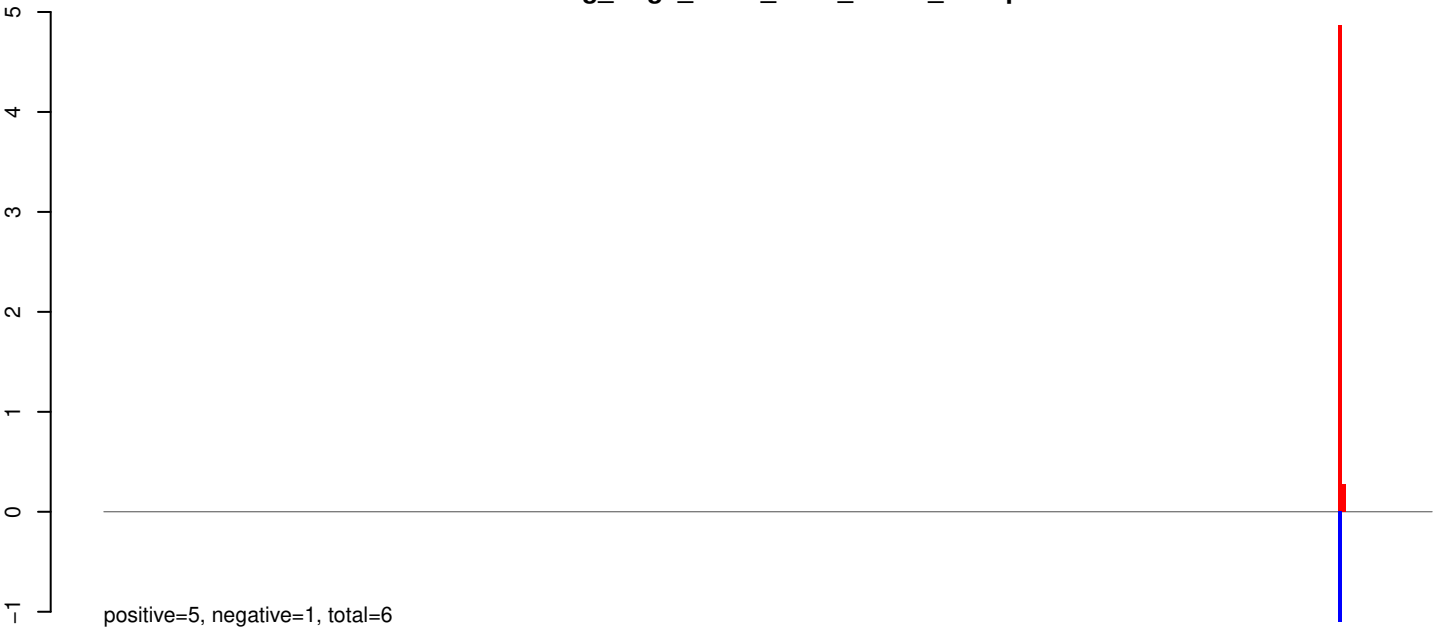
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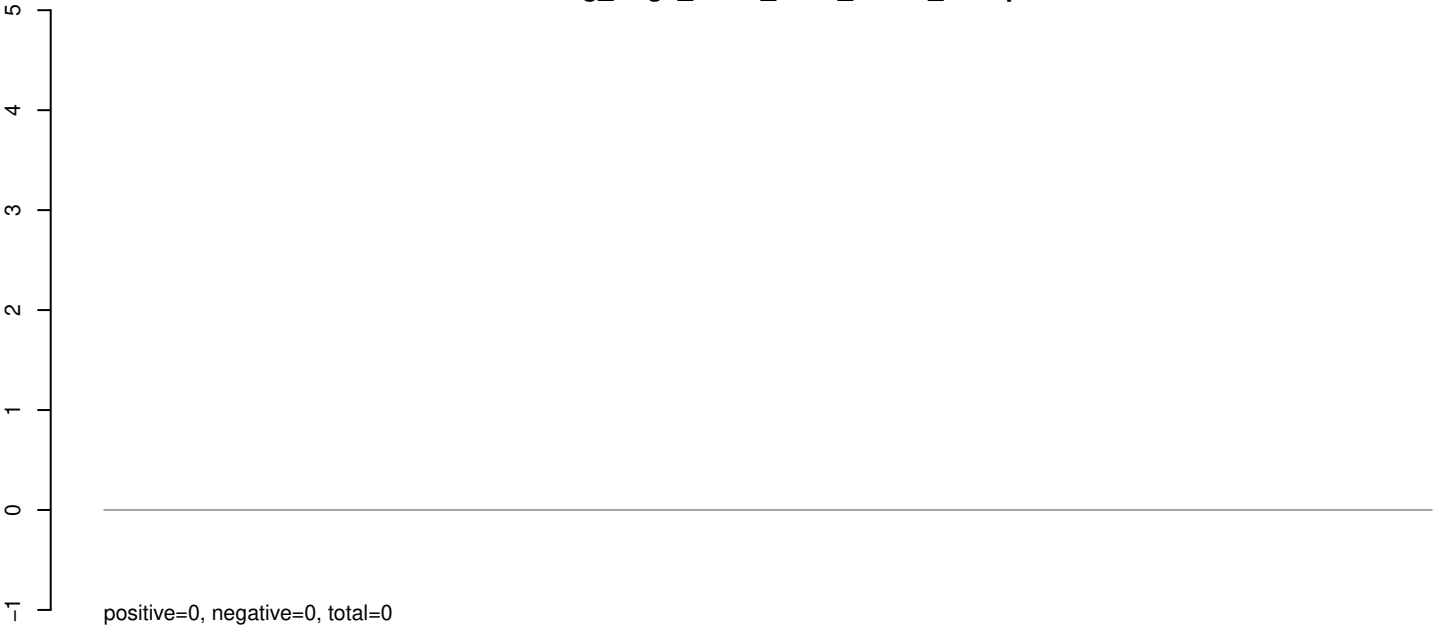
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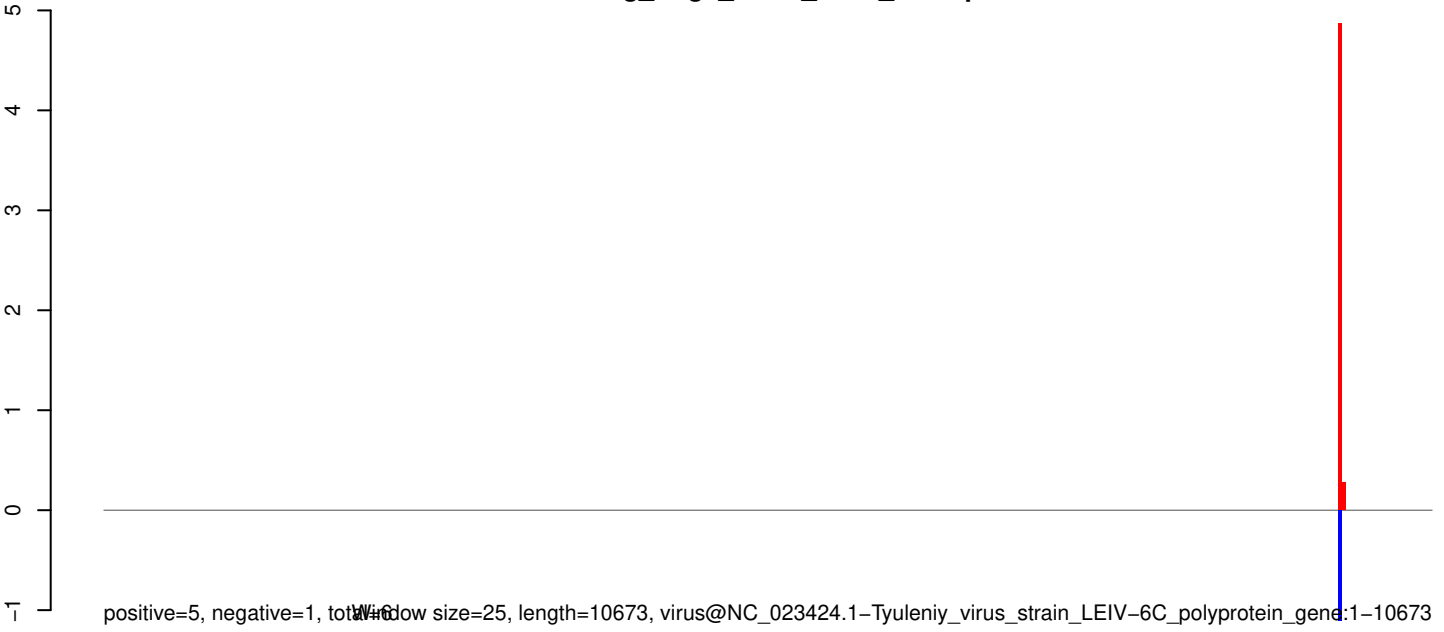
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

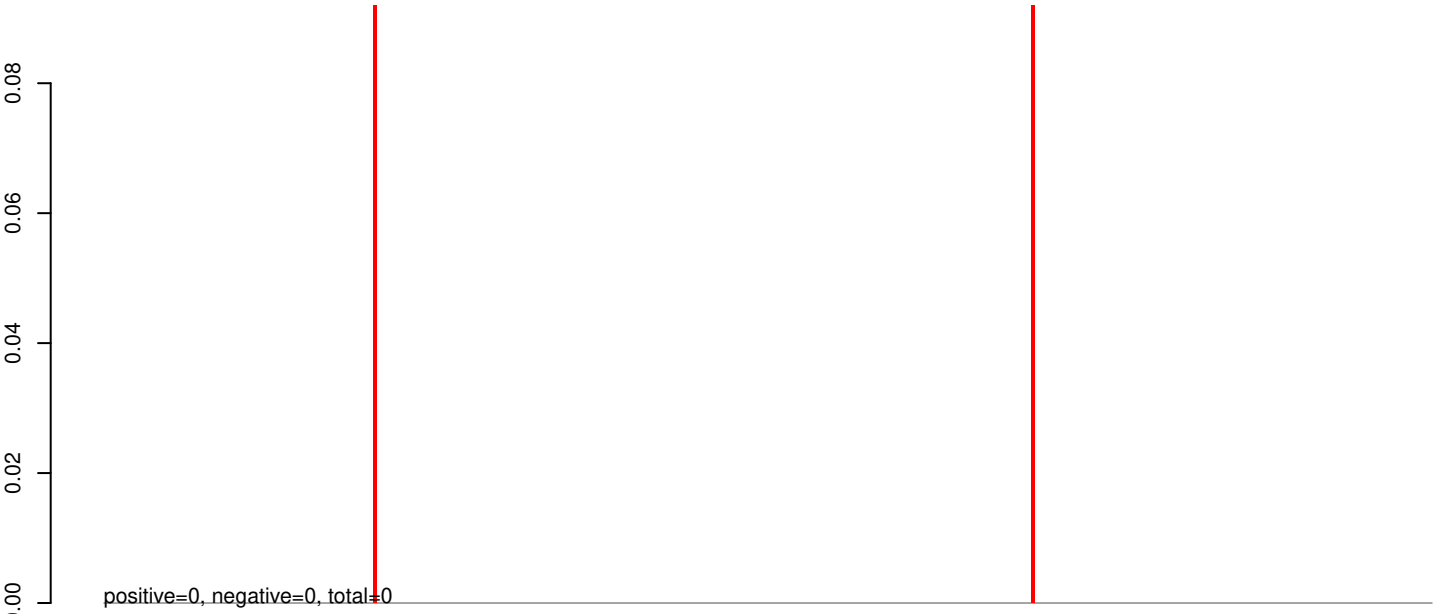


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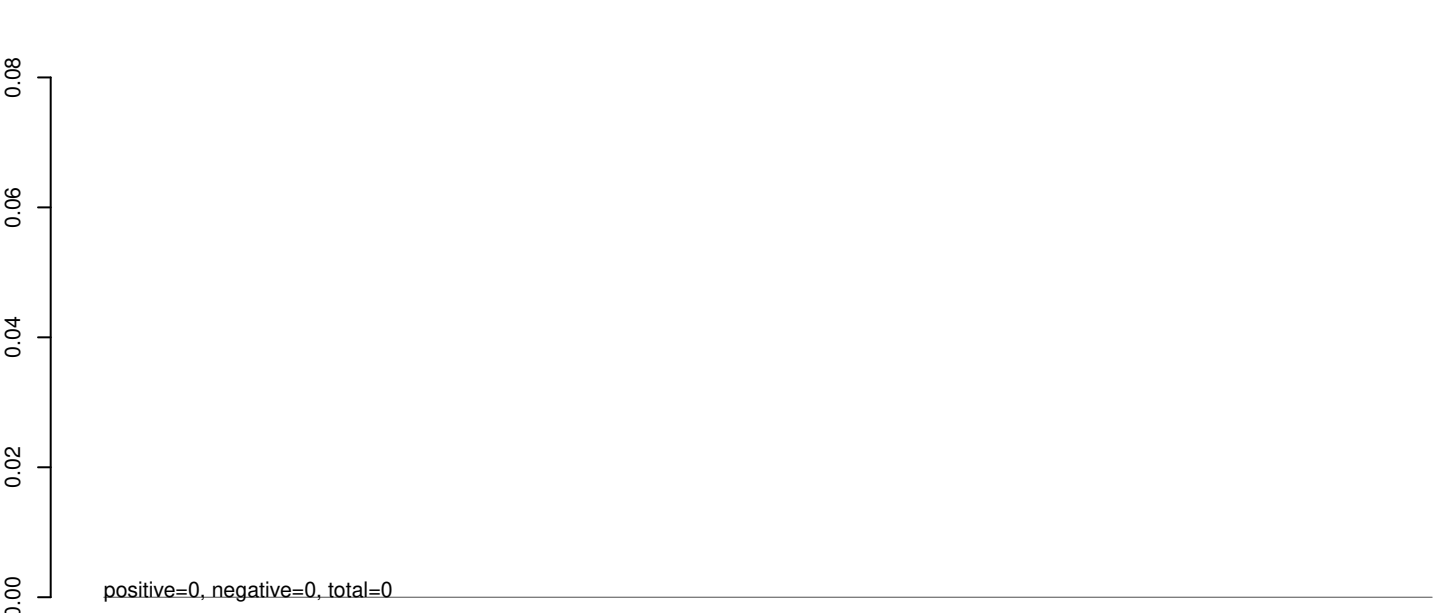




**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

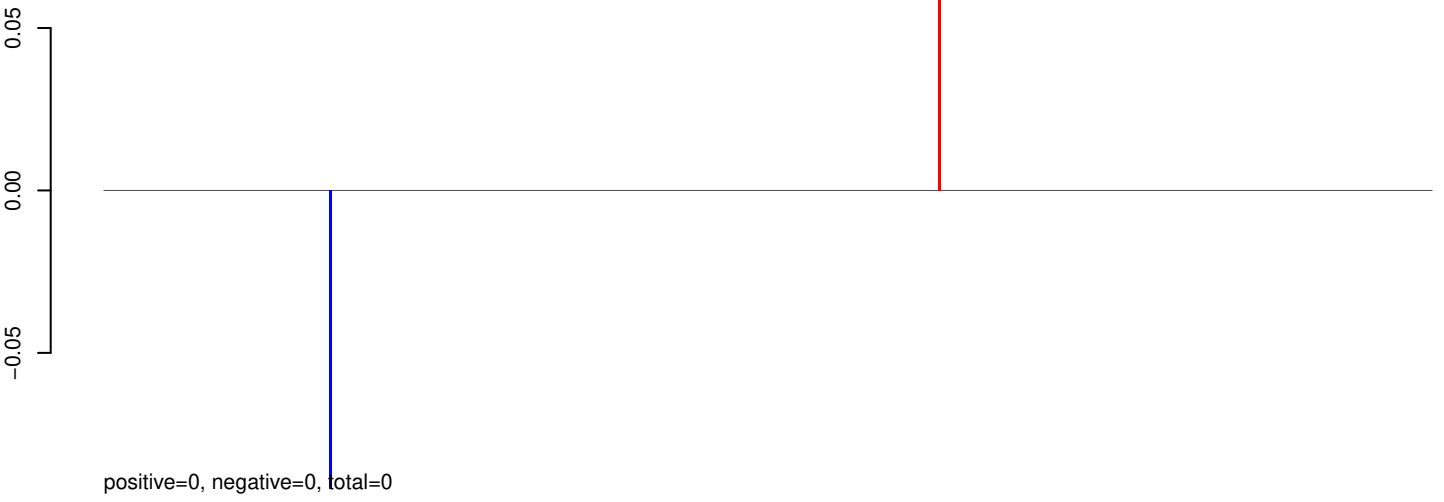


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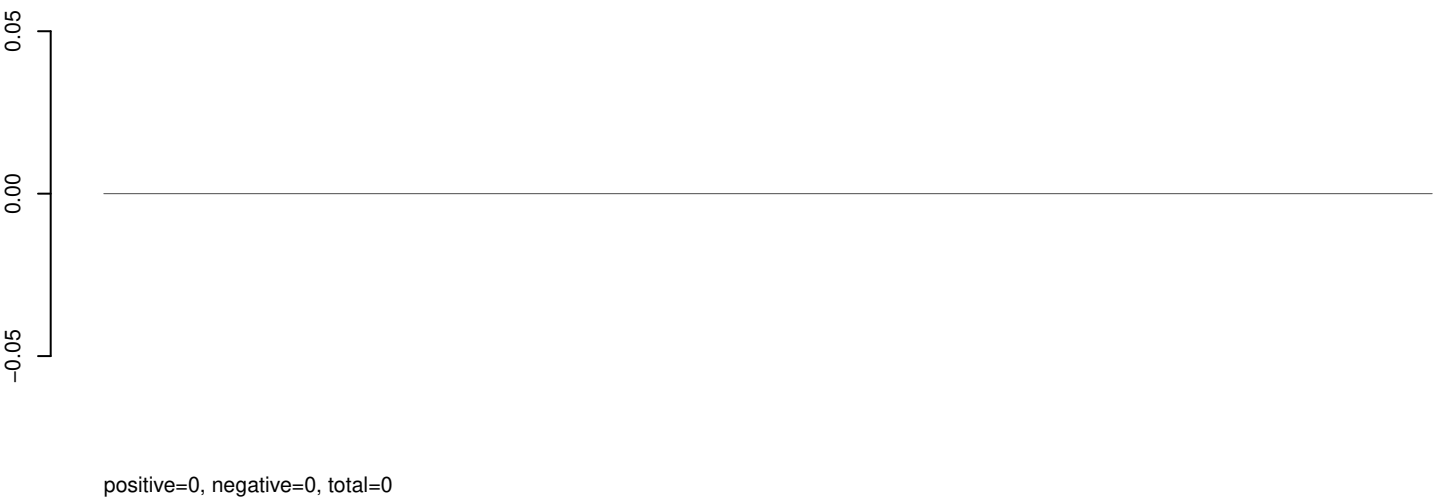


0 2000 4000 6000 8000 10000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



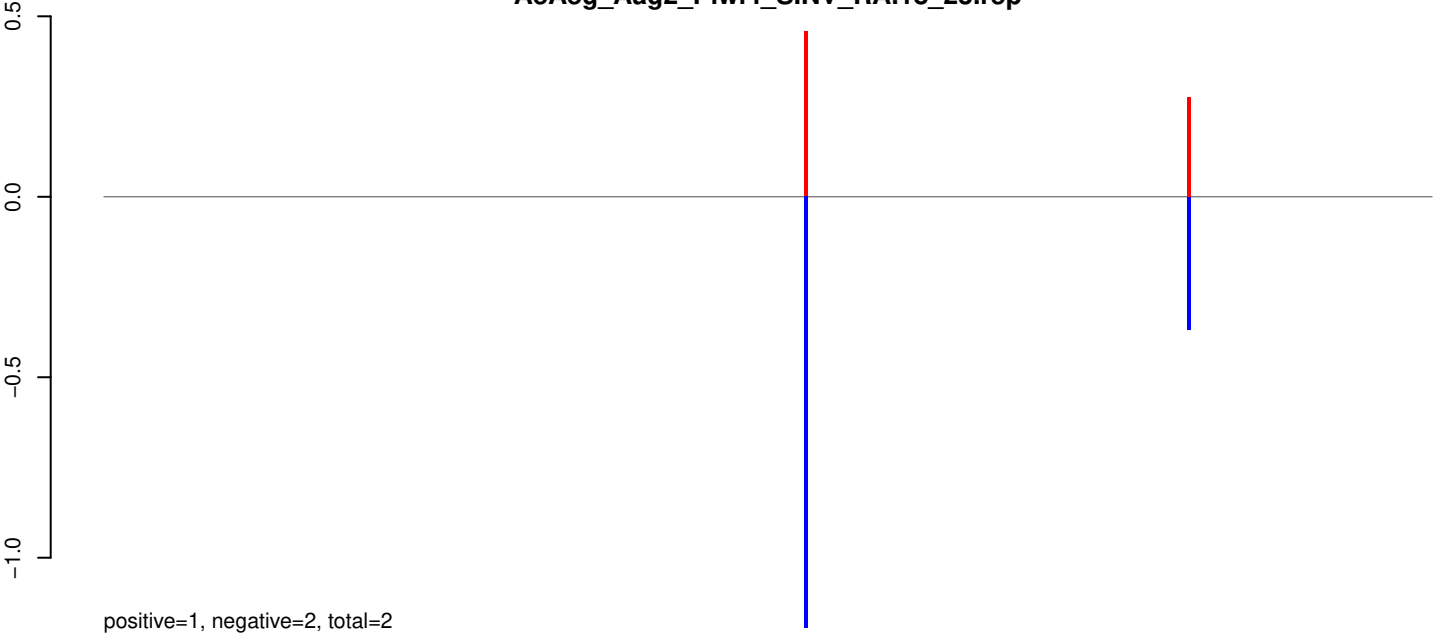
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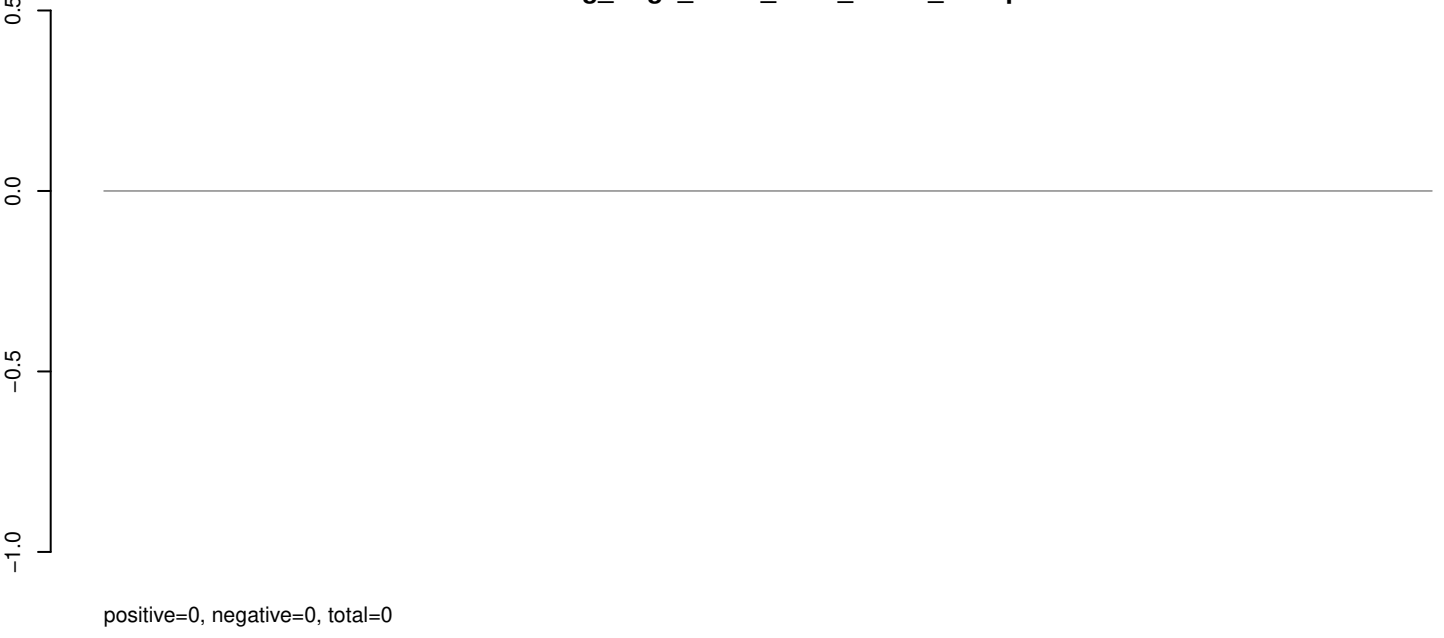
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



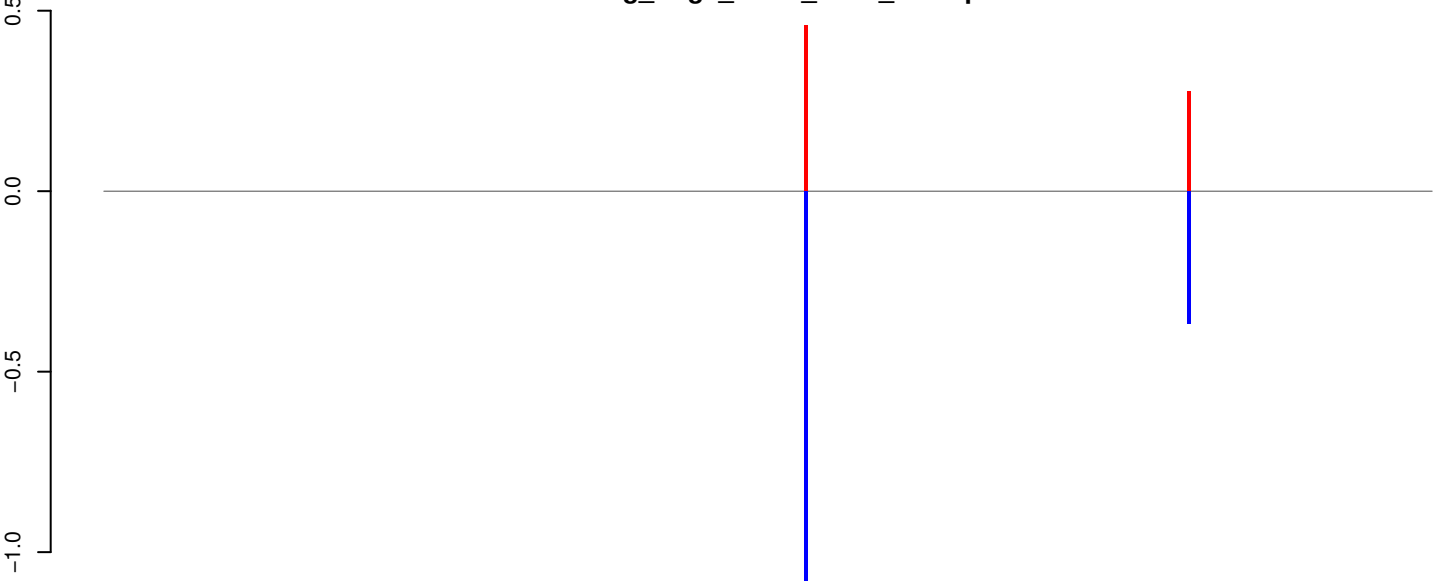
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



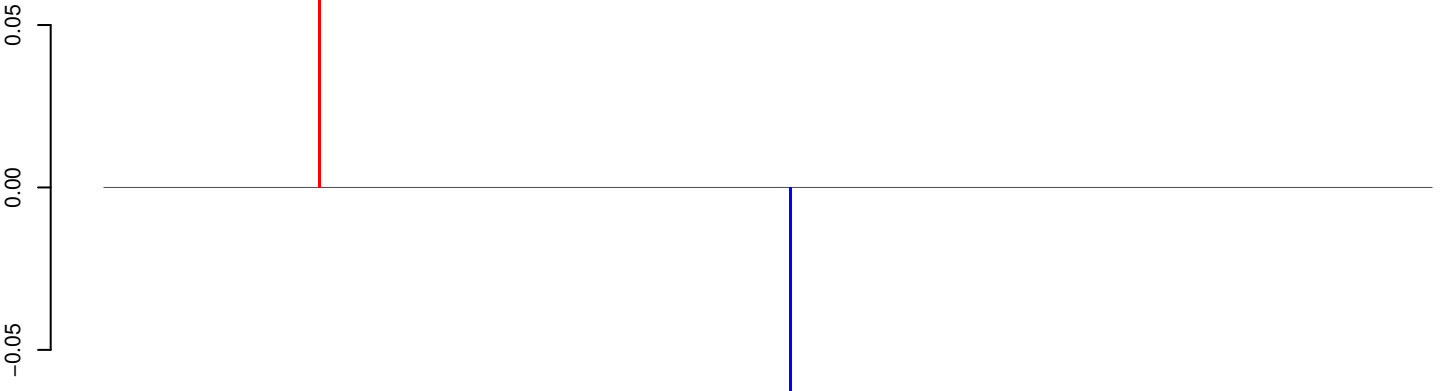
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



Downloaded from [https://www.ncbi.nlm.nih.gov/nuccore/NC\\_015843.2](https://www.ncbi.nlm.nih.gov/nuccore/NC_015843.2) on 05/25/2019. Virus@NC\_015843.2-Tembusu\_virus\_flavivirus\_polyprotein\_flavivirus\_polyprotein\_gene\_gene:1-10990

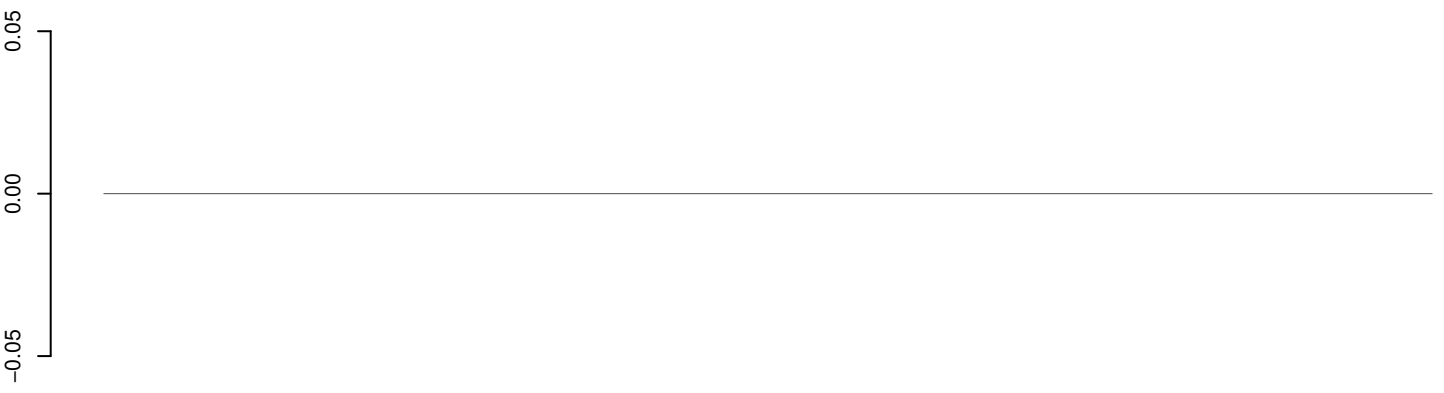
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



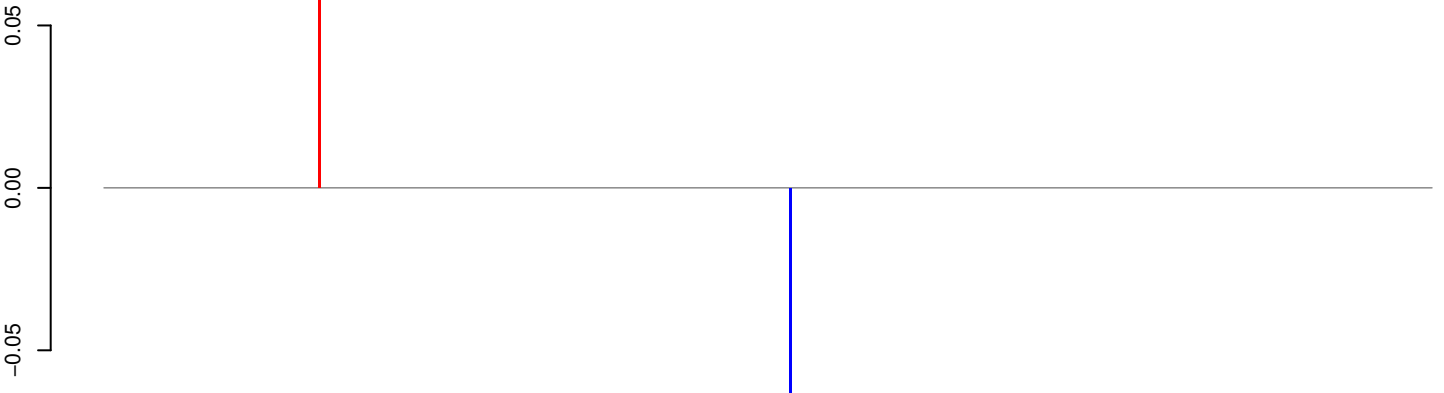
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

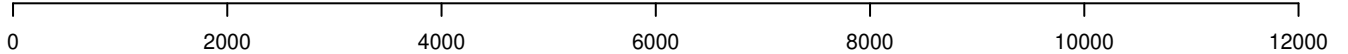


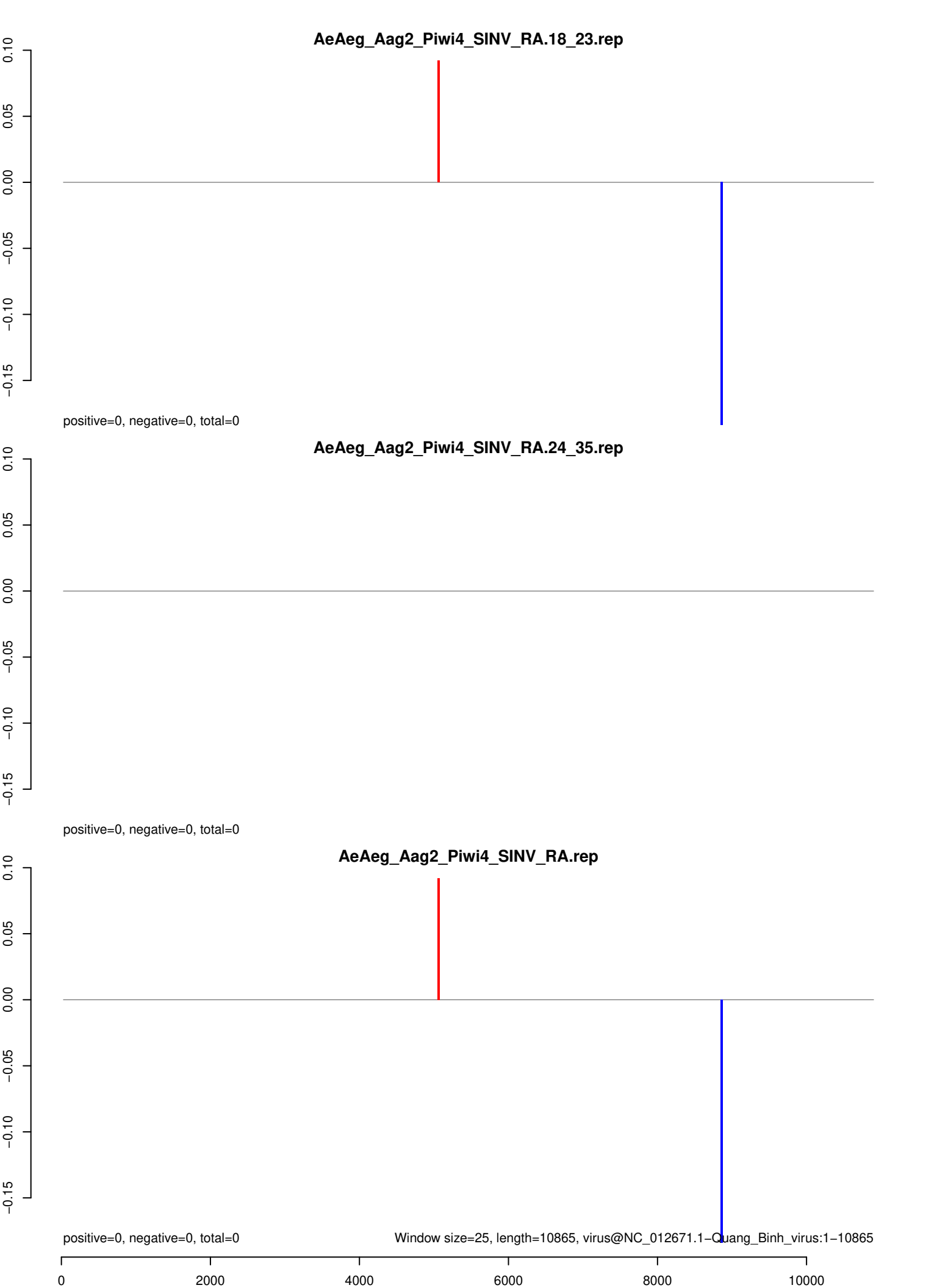
positive=0, negative=0, total=0

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

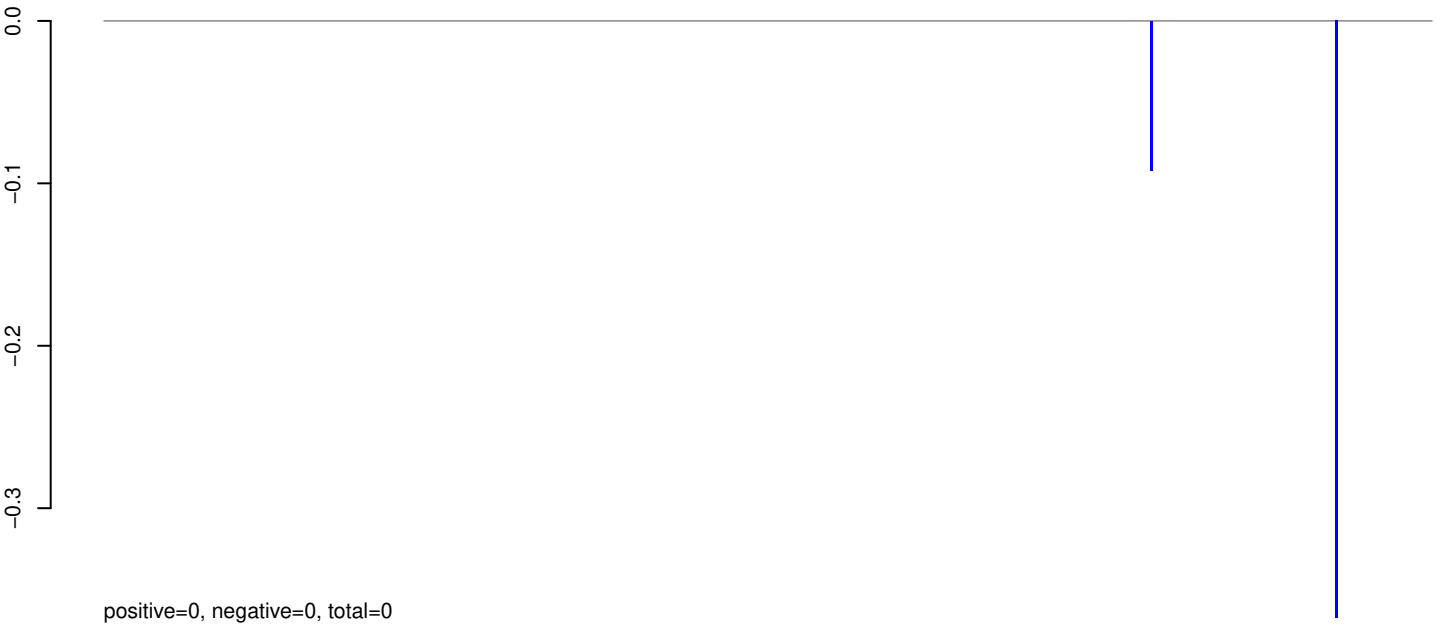


length=2000, virus=0, inv=0, total=0 -Drosophila\_melanogaster\_sigma\_virus\_AP30\_N\_P\_X\_M\_G\_and\_L\_genes\_genomic\_RNA\_isolate:1-12390

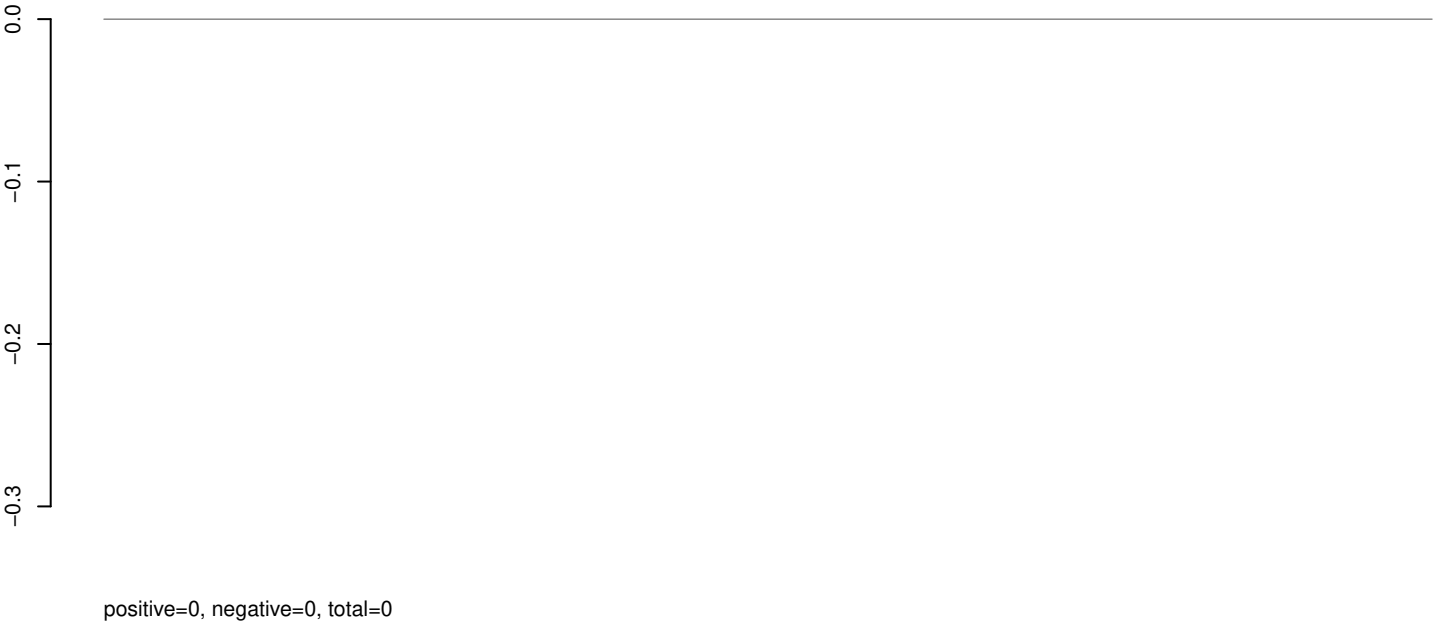




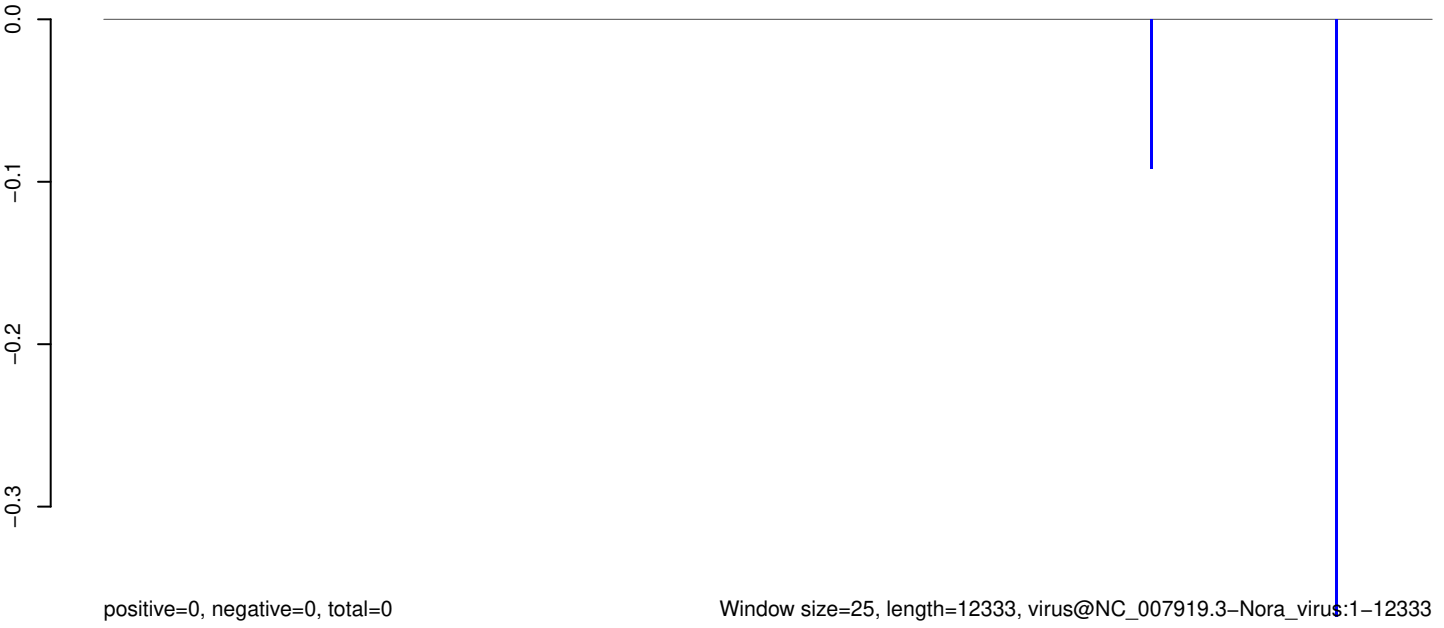
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



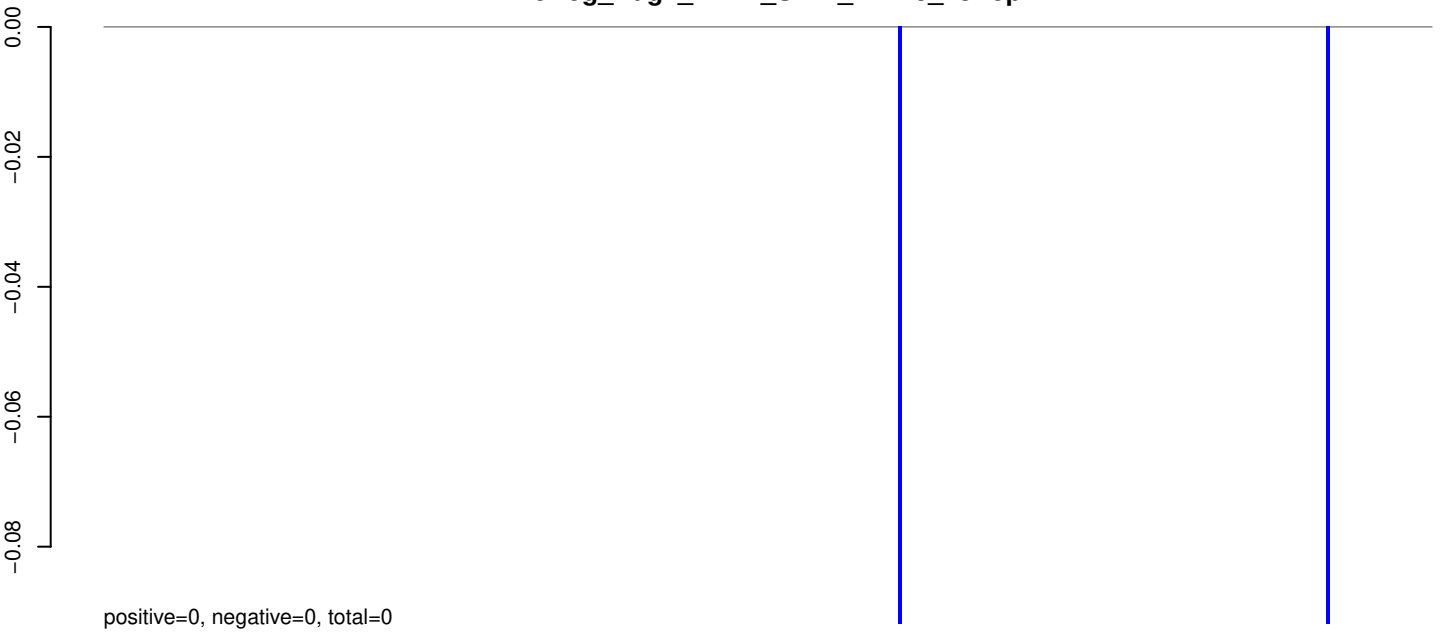
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



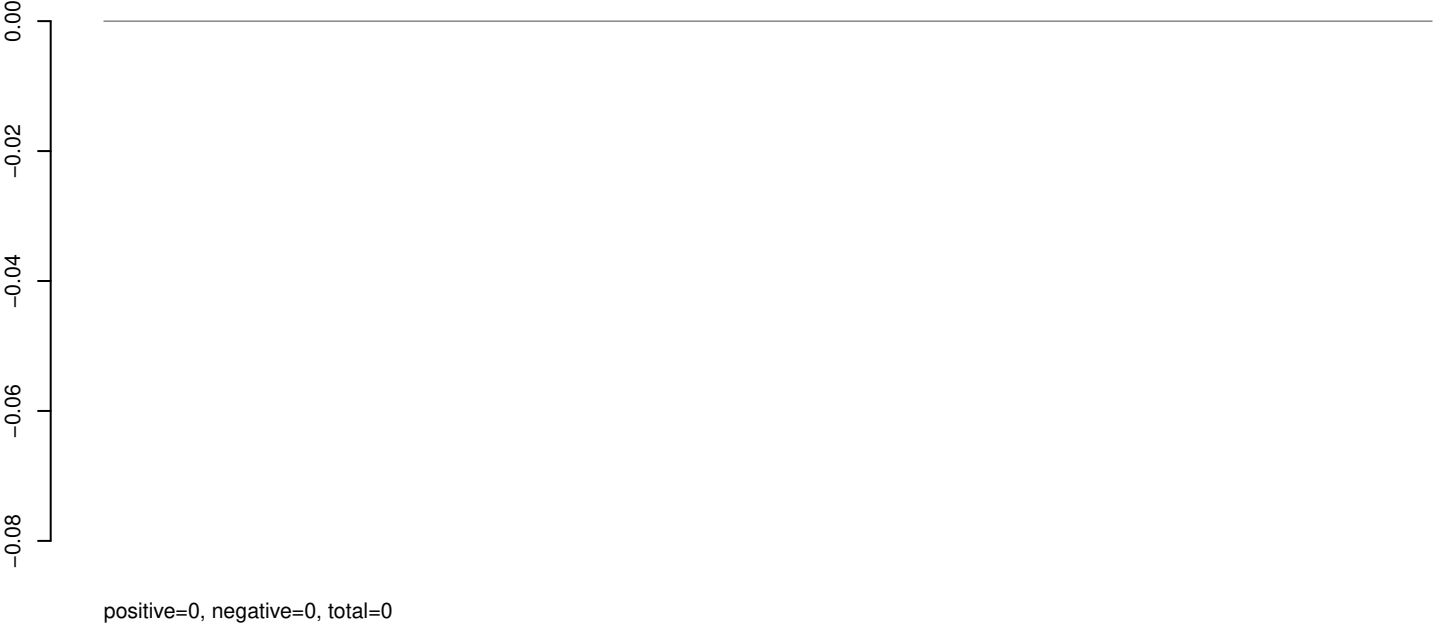
Window size=25, length=12333, virus@NC\_007919.3-Nora\_virus:1-12333

0 2000 4000 6000 8000 10000 12000

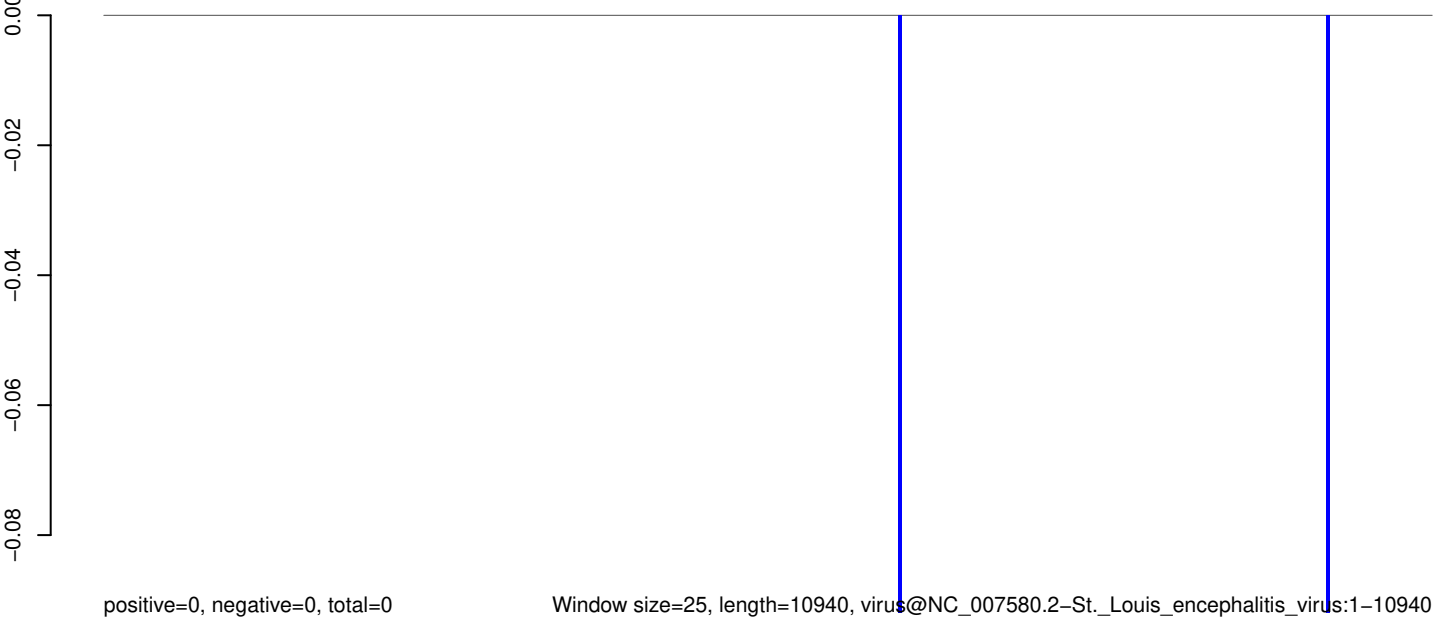
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



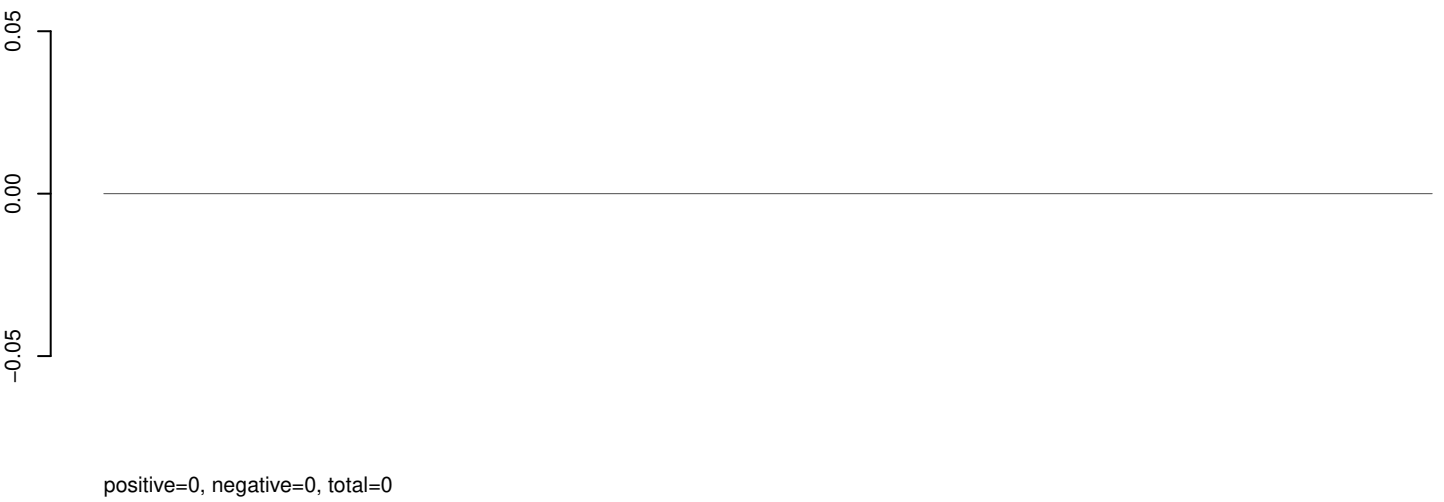
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

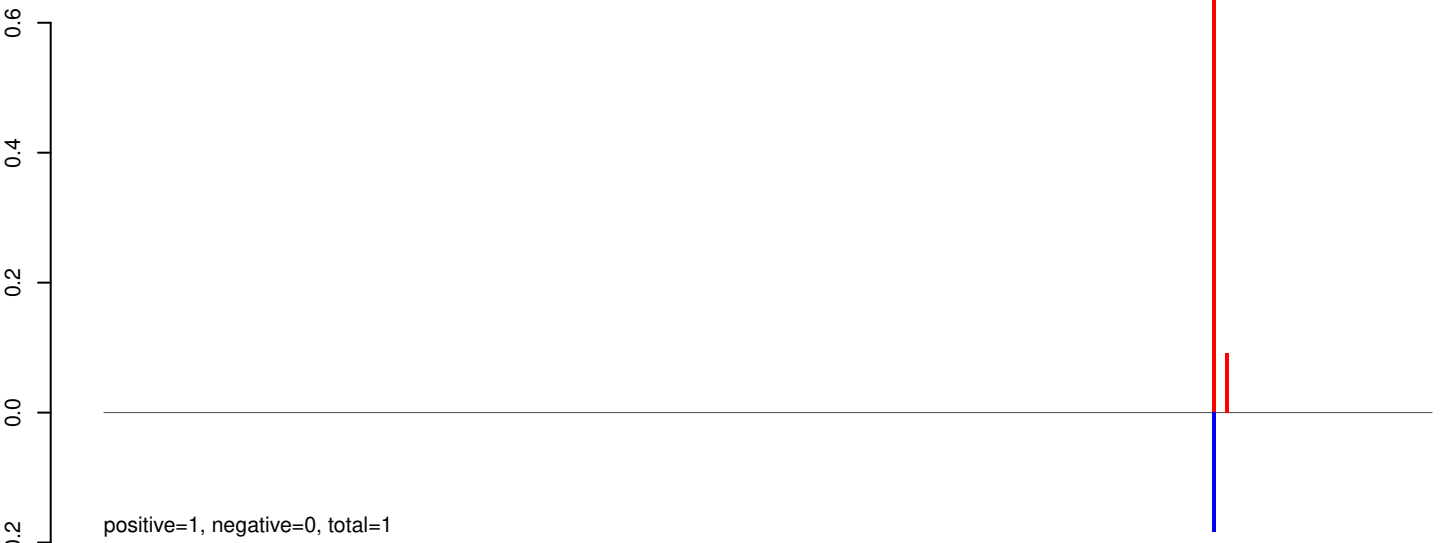


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

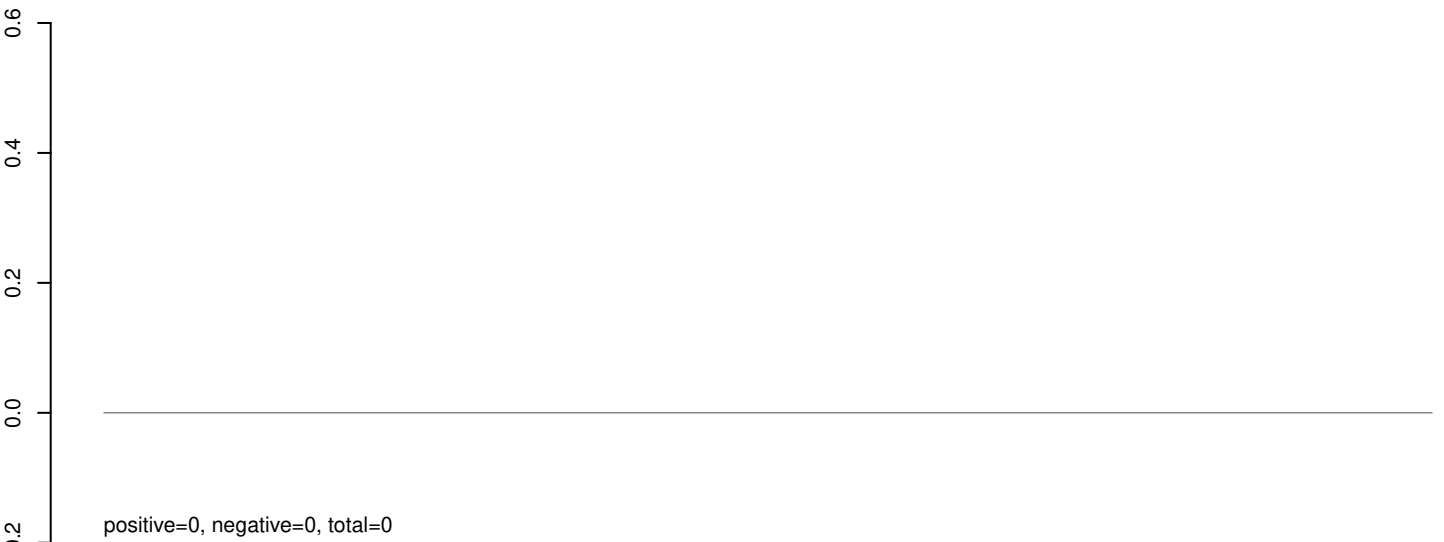




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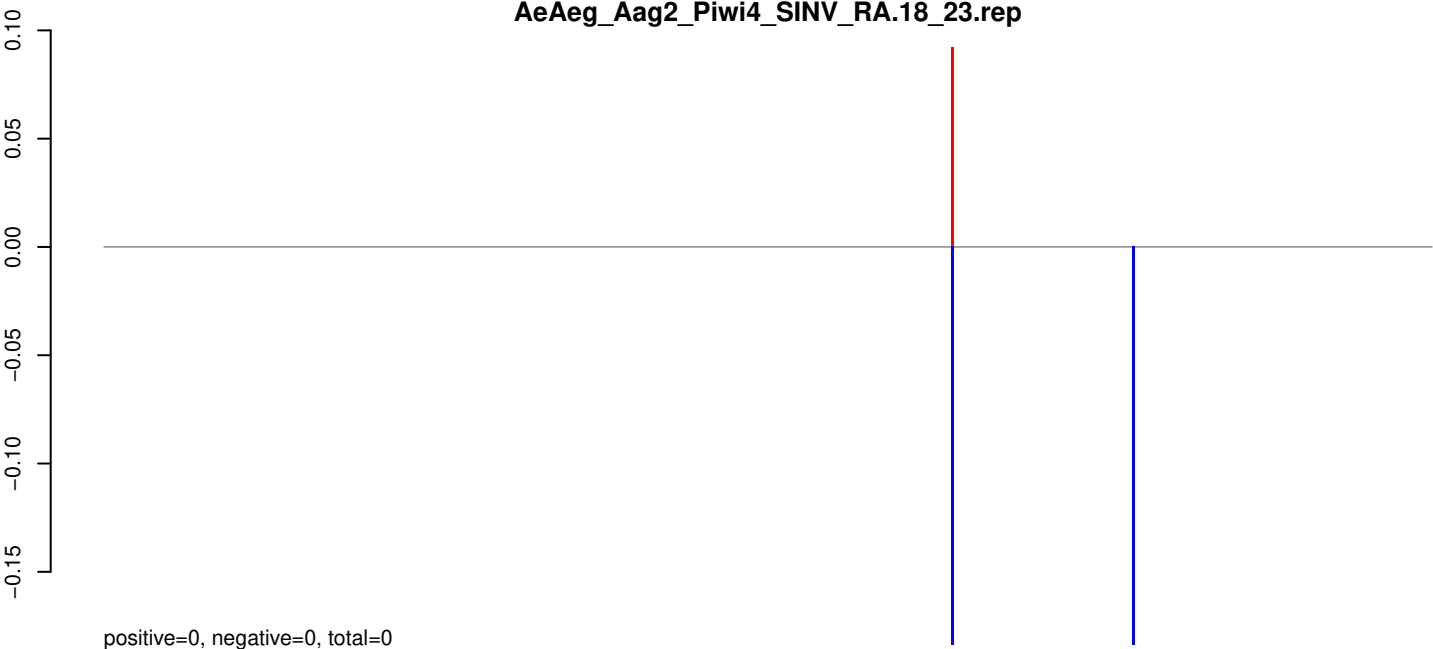
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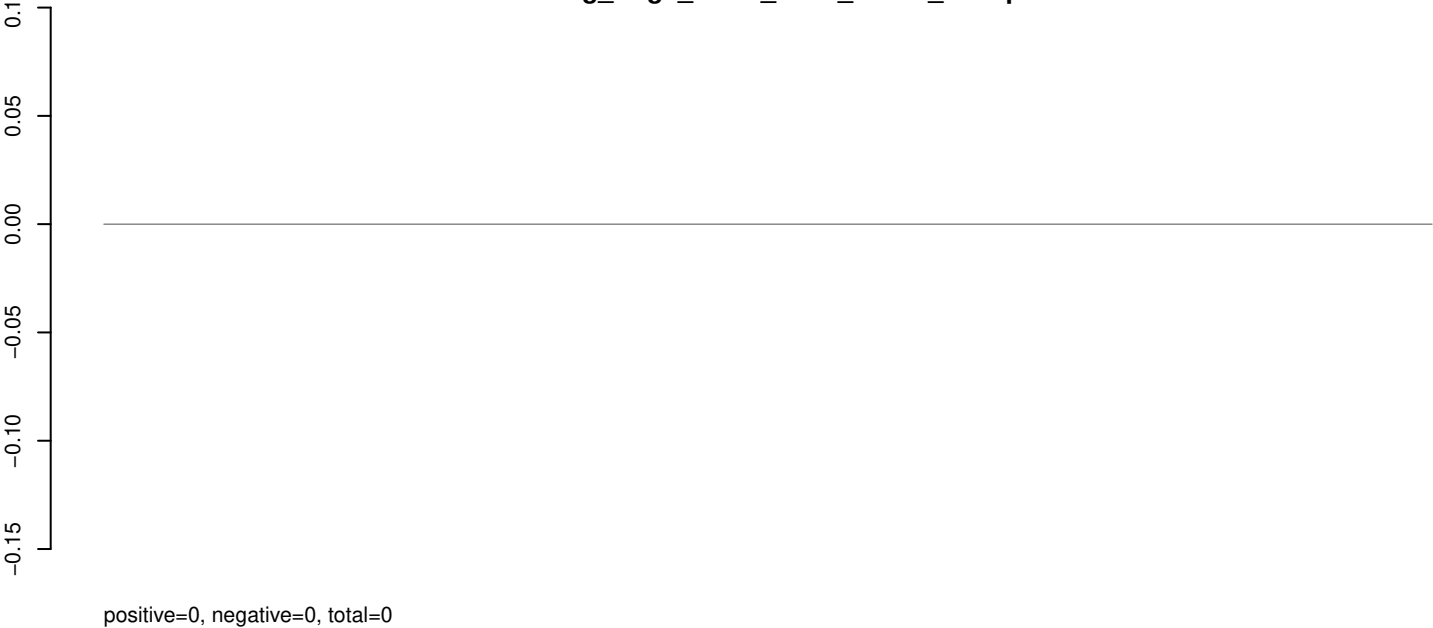
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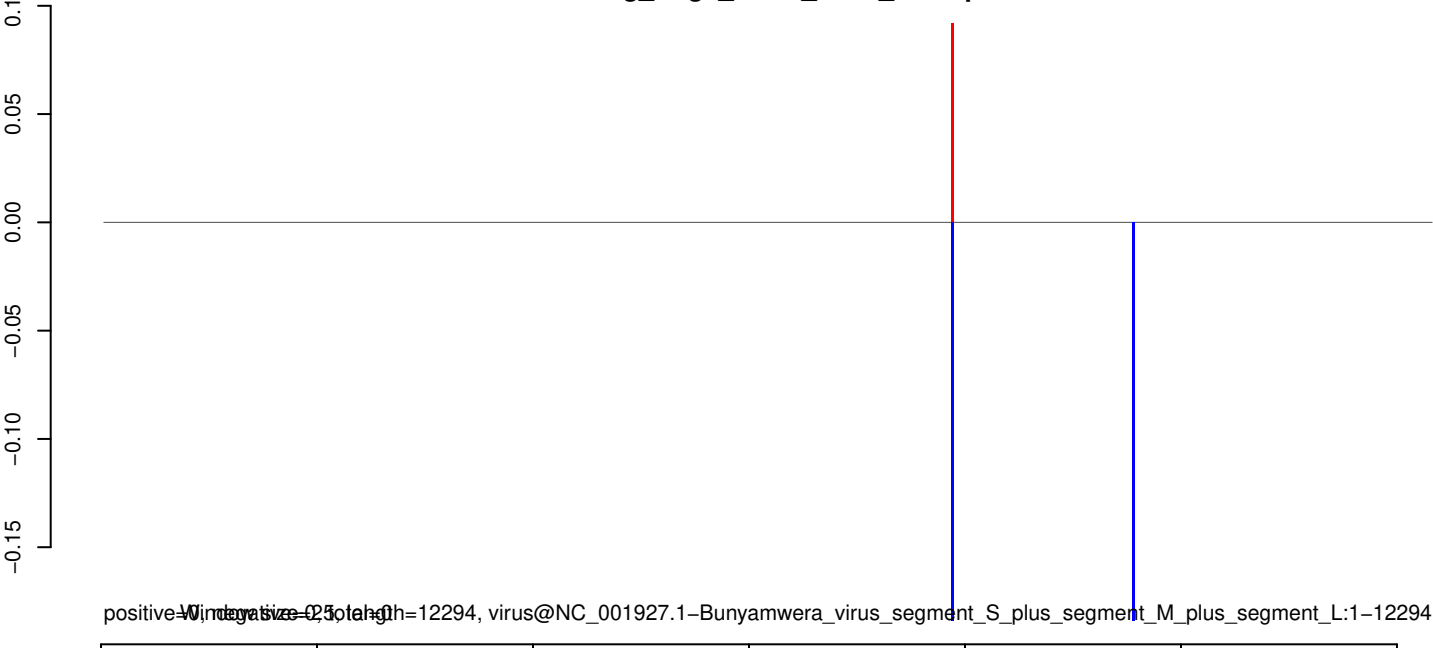
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



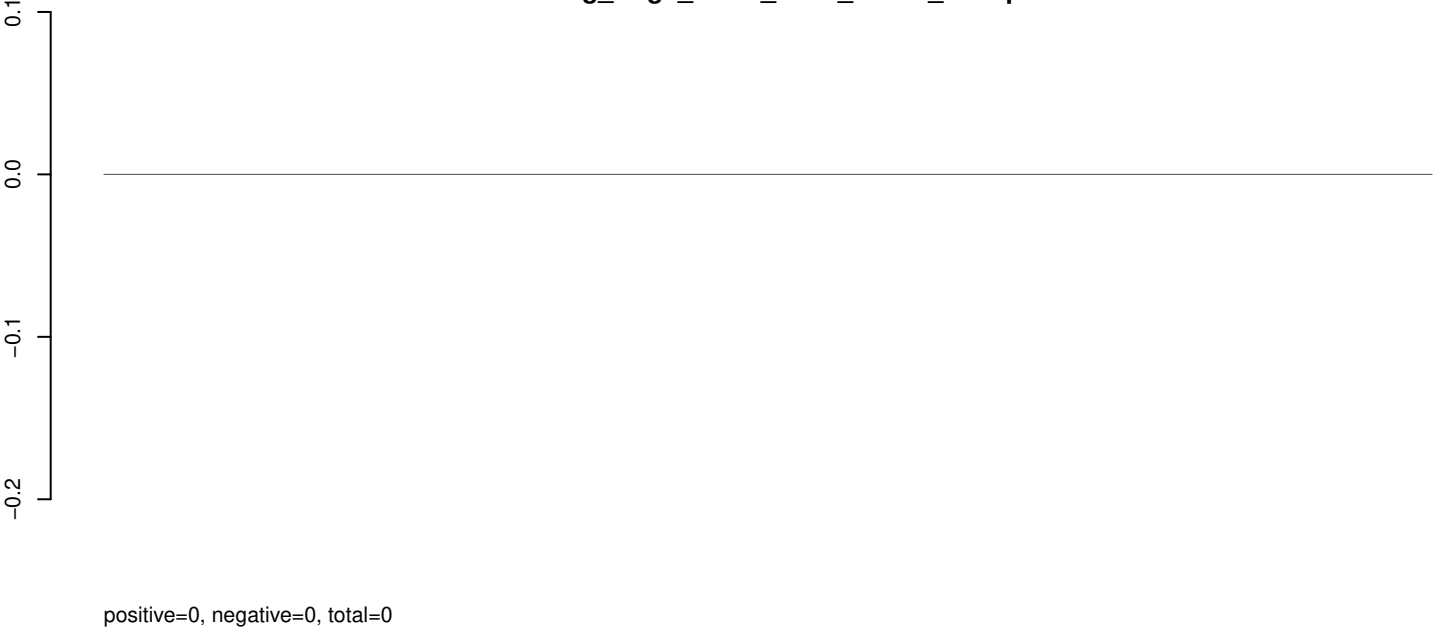
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0 2000 4000 6000 8000 10000 12000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



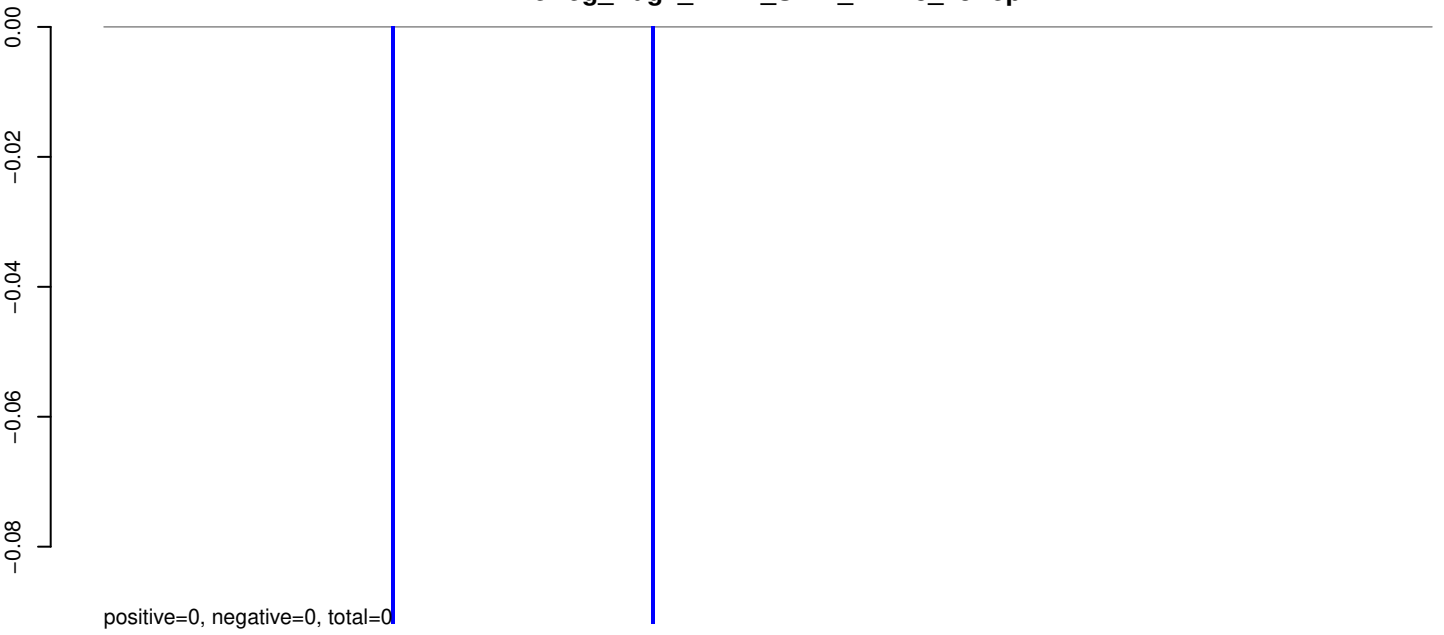
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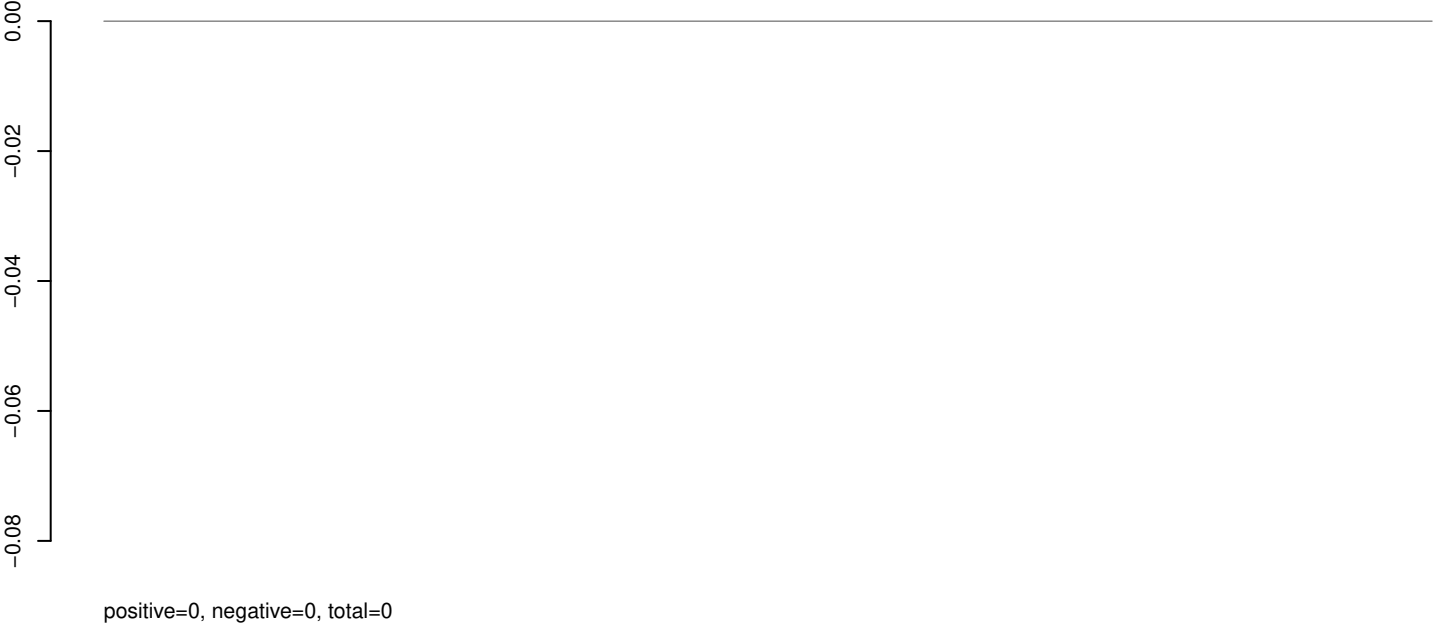
Window size=25, length=11141, virus@NC\_001672.1-Tick-borne\_encephalitis\_virus:1-11141

0 2000 4000 6000 8000 10000

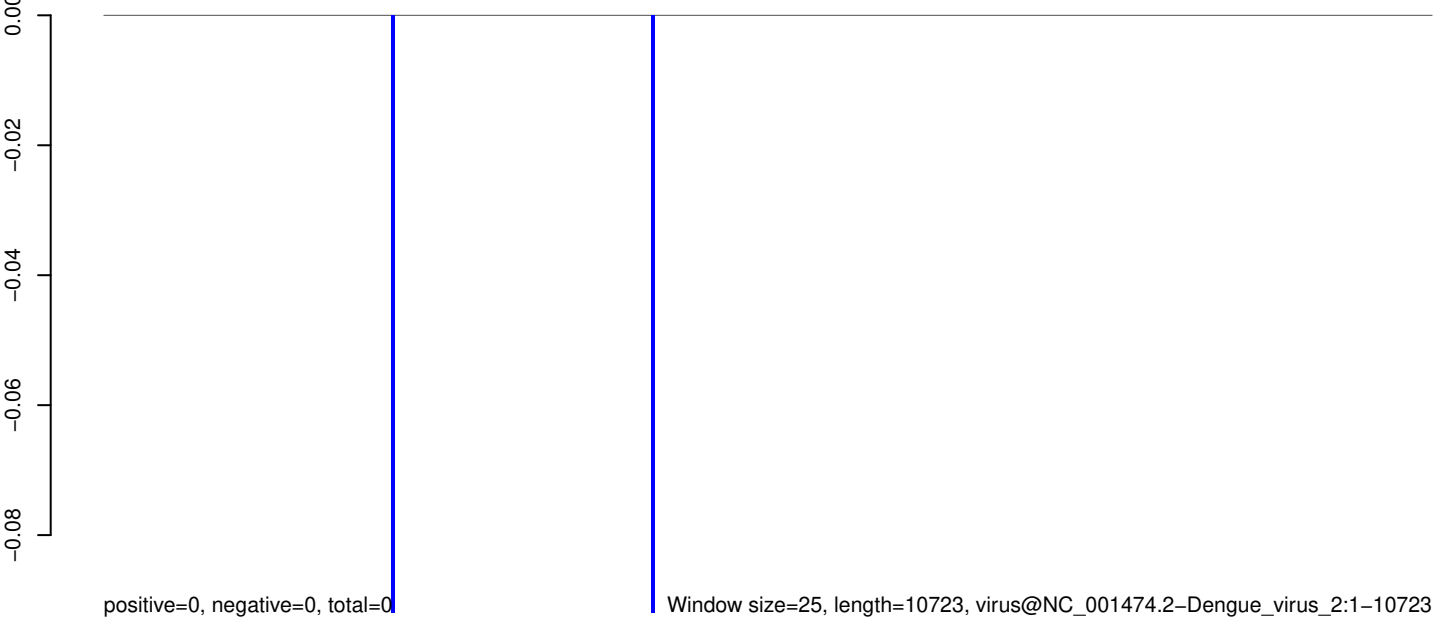
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



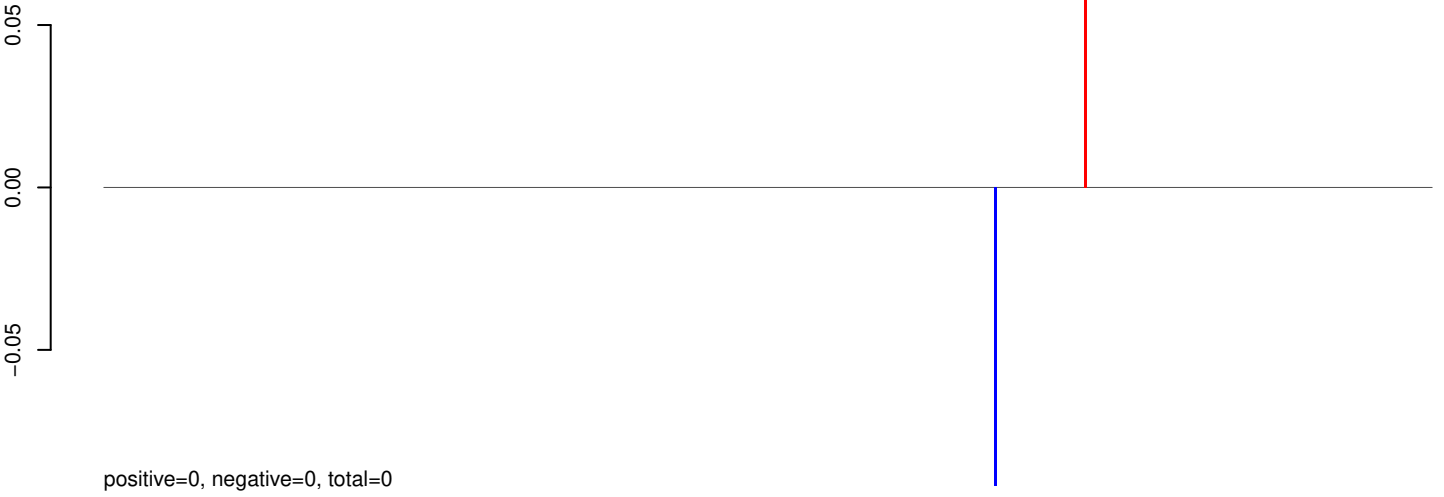
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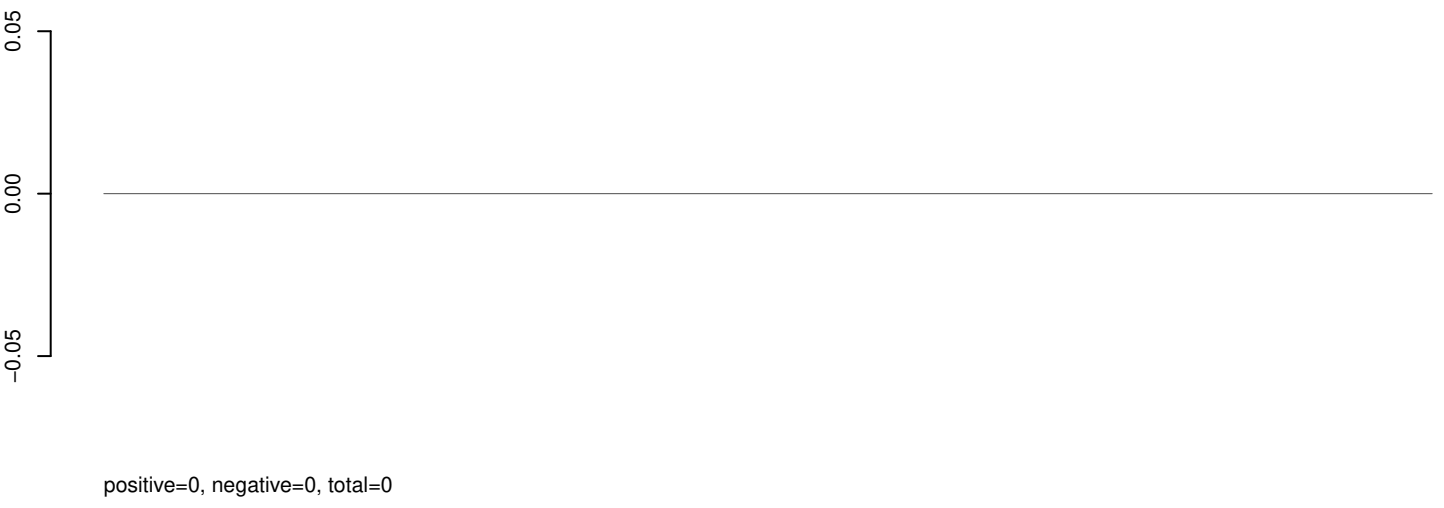
Window size=25, length=10723, virus@NC\_001474.2-Dengue\_virus\_2:1-10723

0 2000 4000 6000 8000 10000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



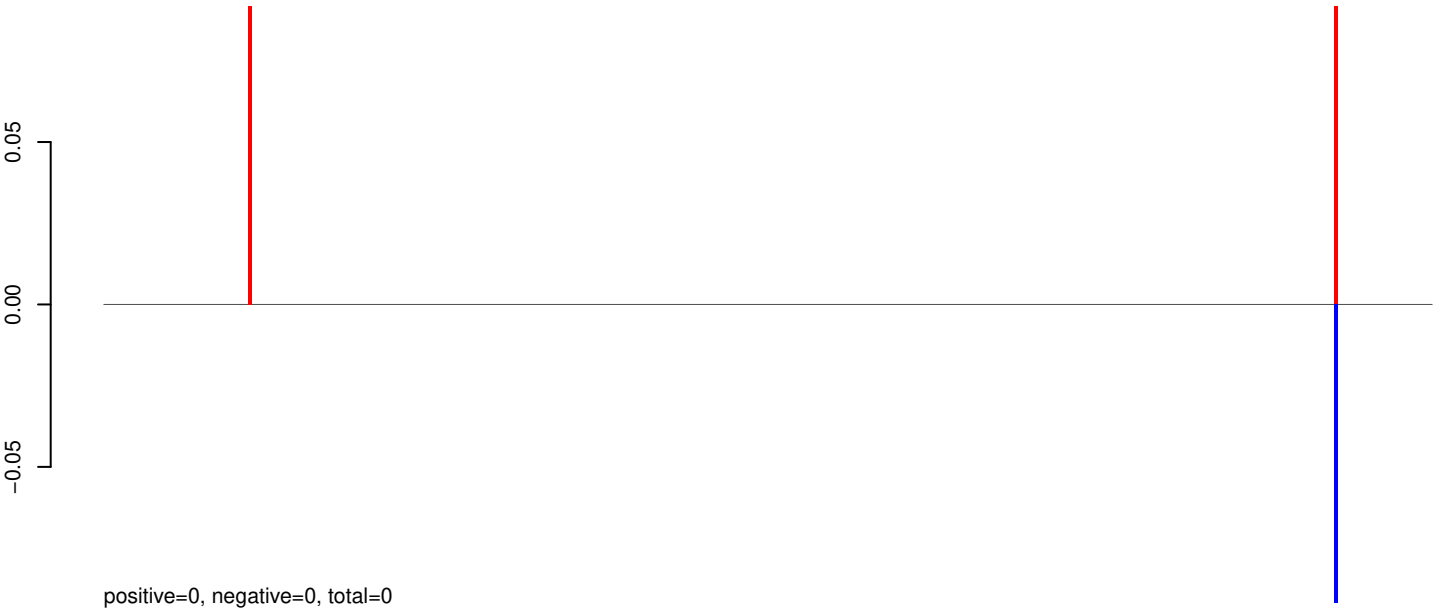
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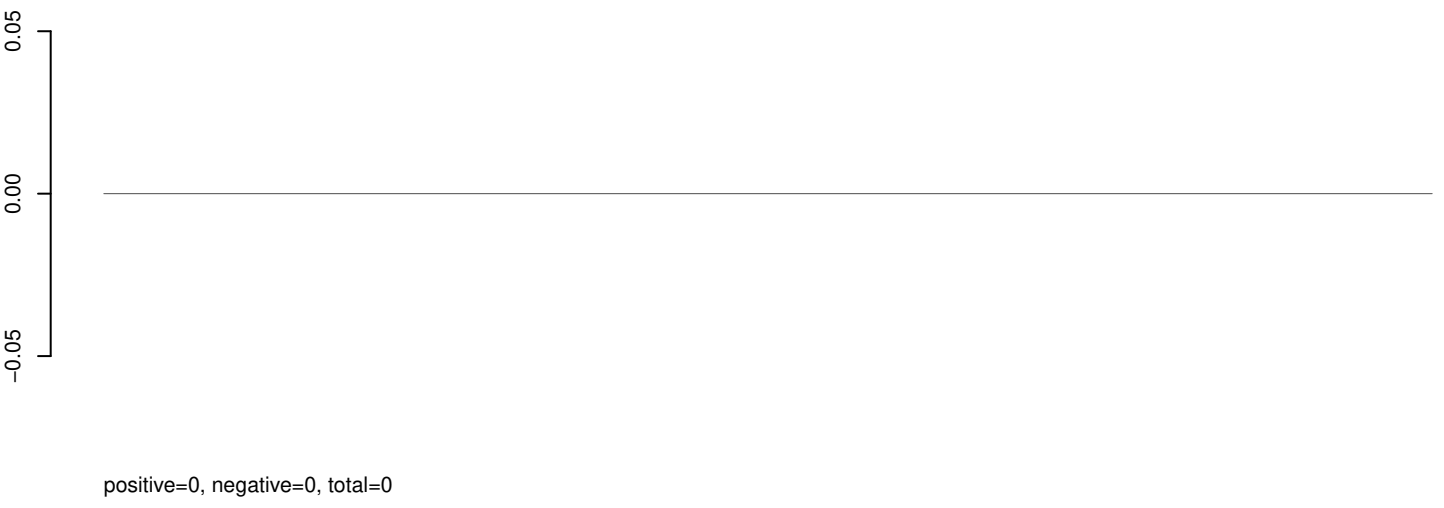
Window size=25, length=12195, virus@MG747536.1\_Oropouche\_virus\_isolate\_BeAr\_136921\_segment\_S\_M\_L\_:1-12195

0 2000 4000 6000 8000 10000 12000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



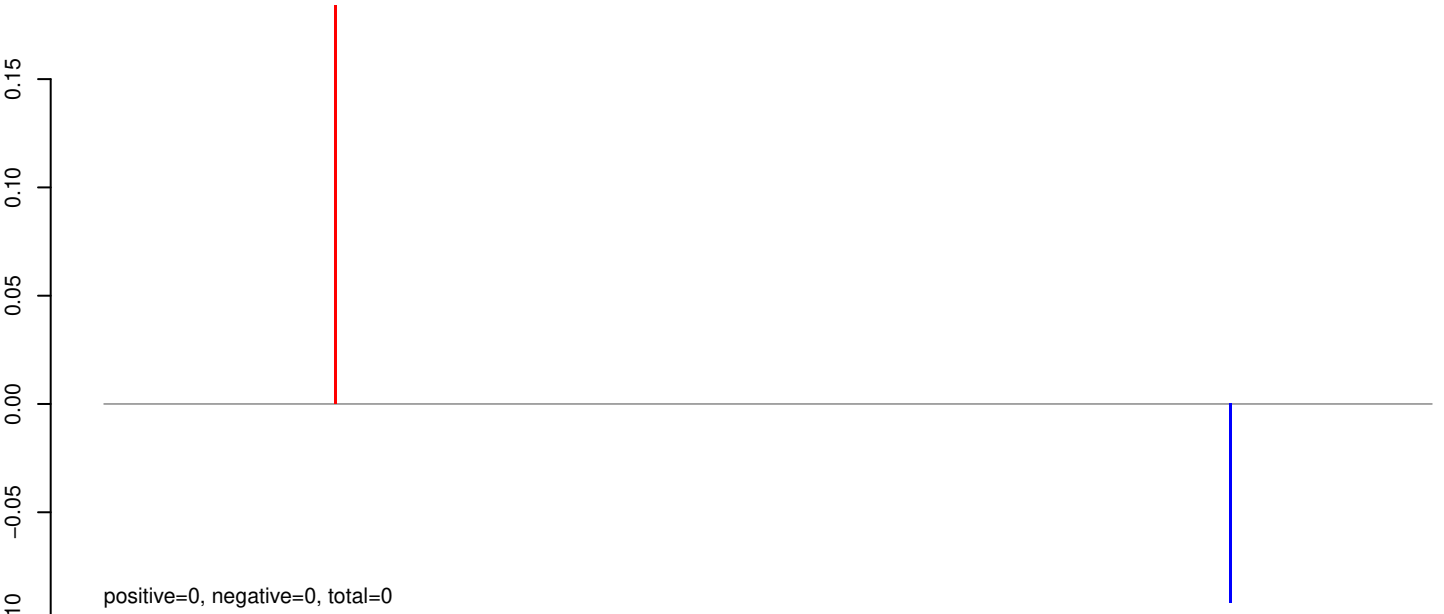
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



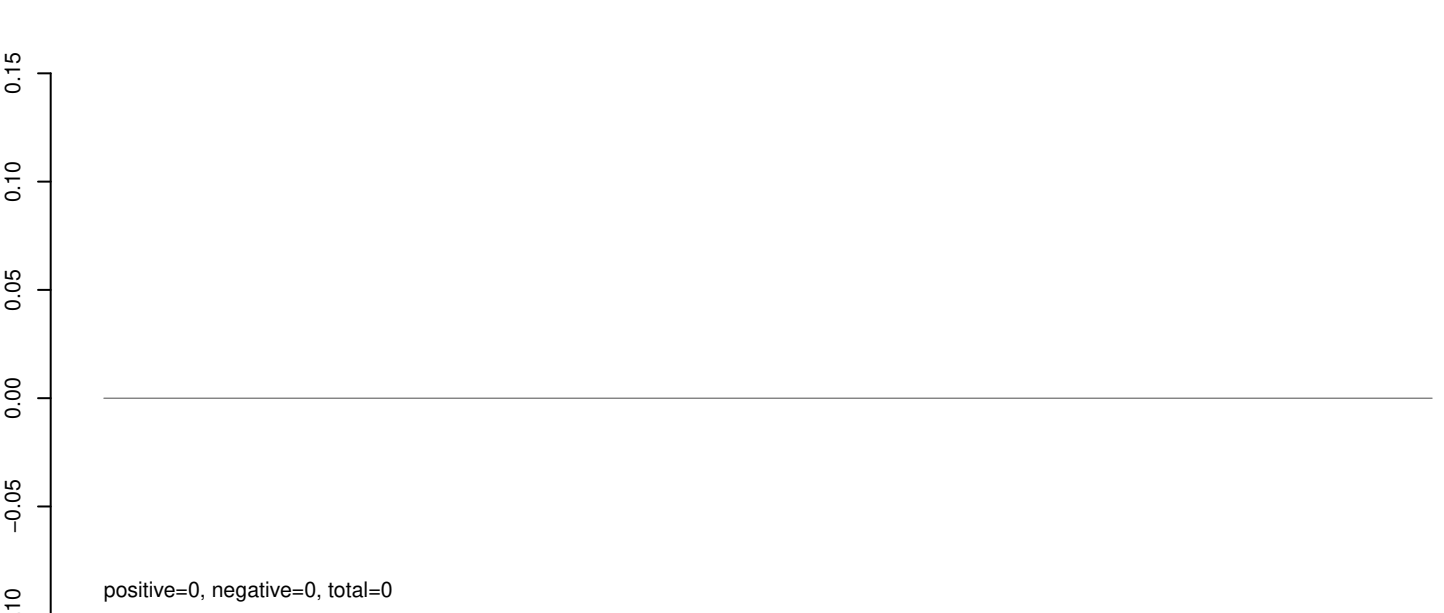
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



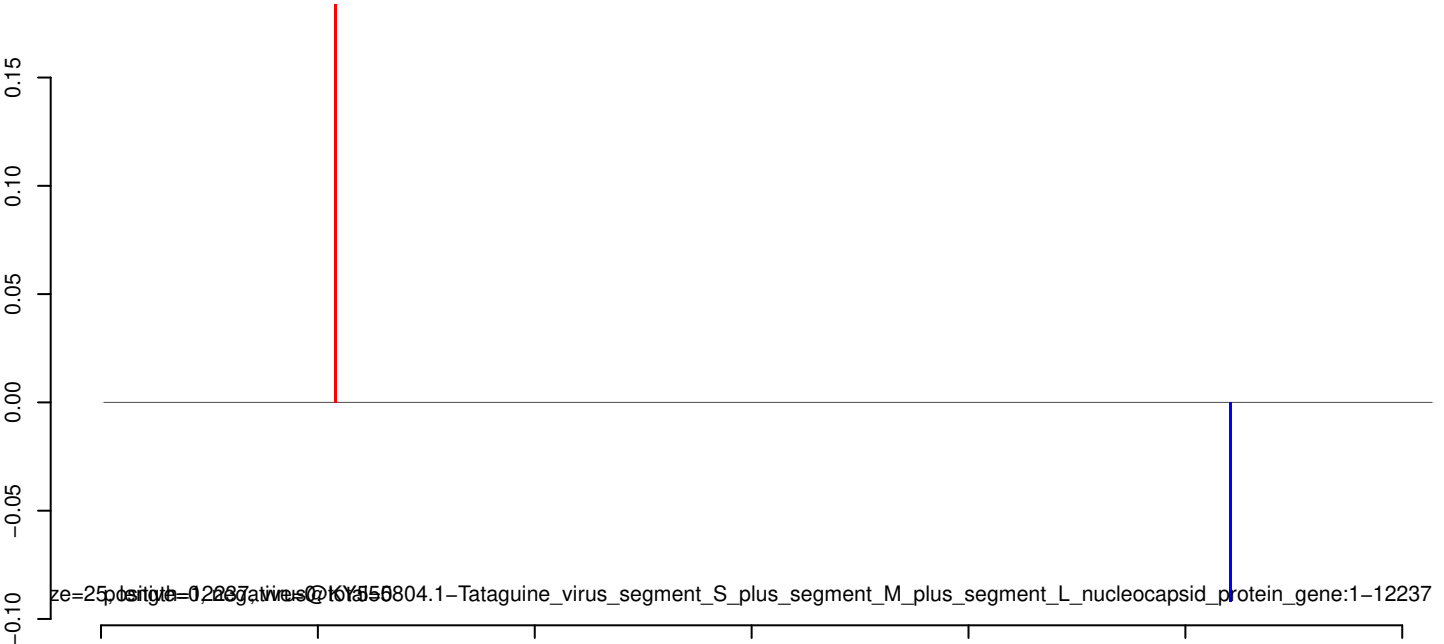
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



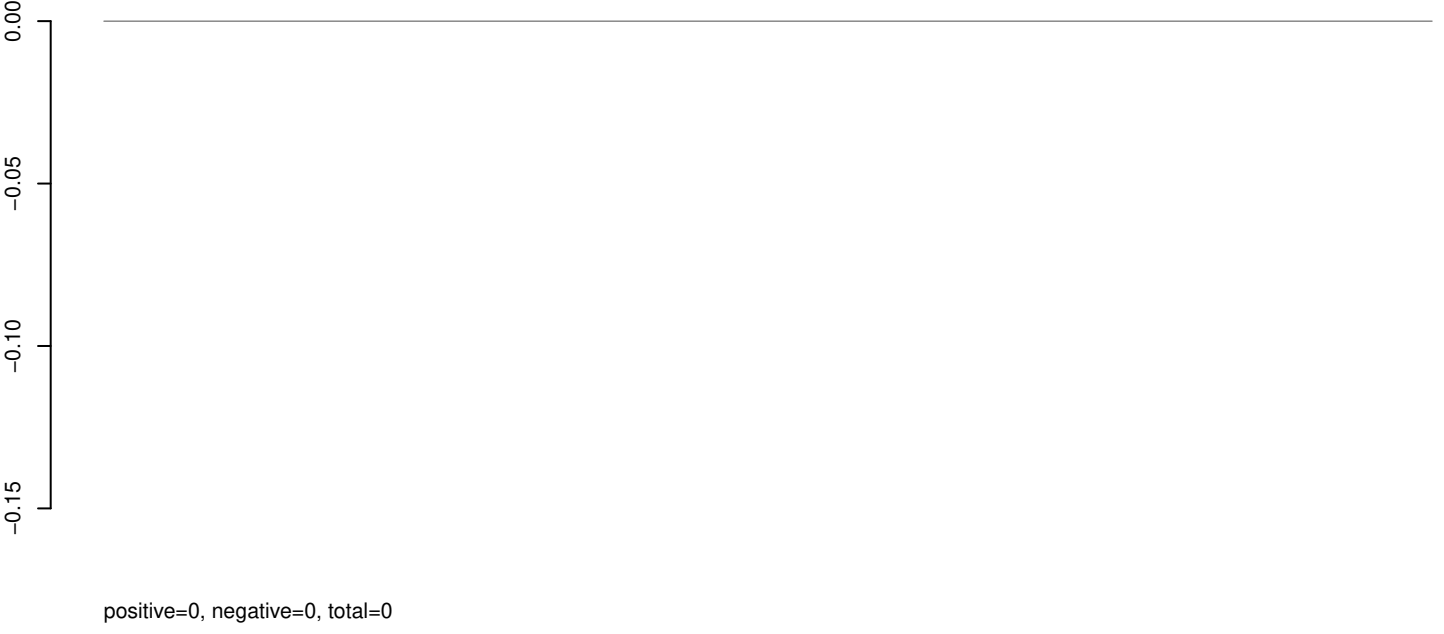
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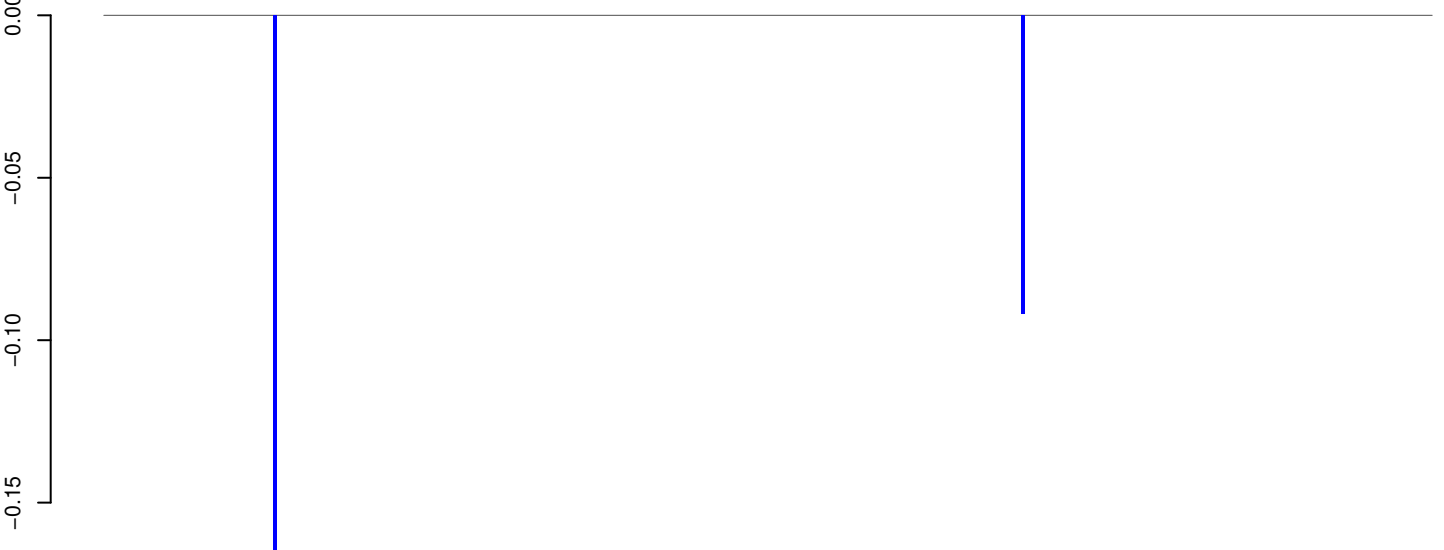
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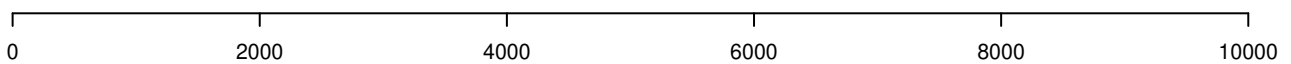
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

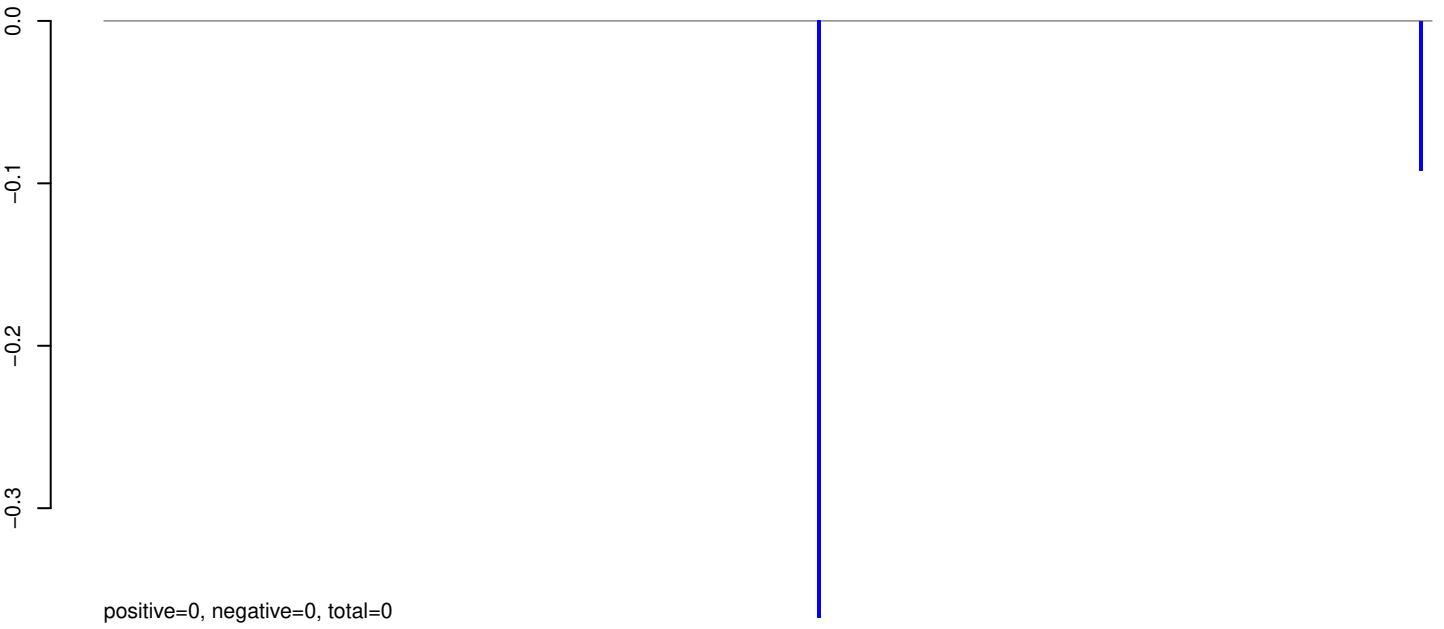


positive=0, negative=0, total=0, Window size=25, length=10749, virus@KX669682.1-Calbertado\_virus\_isolate\_Cal\_mos\_2\_polyprotein\_gene:1-10749

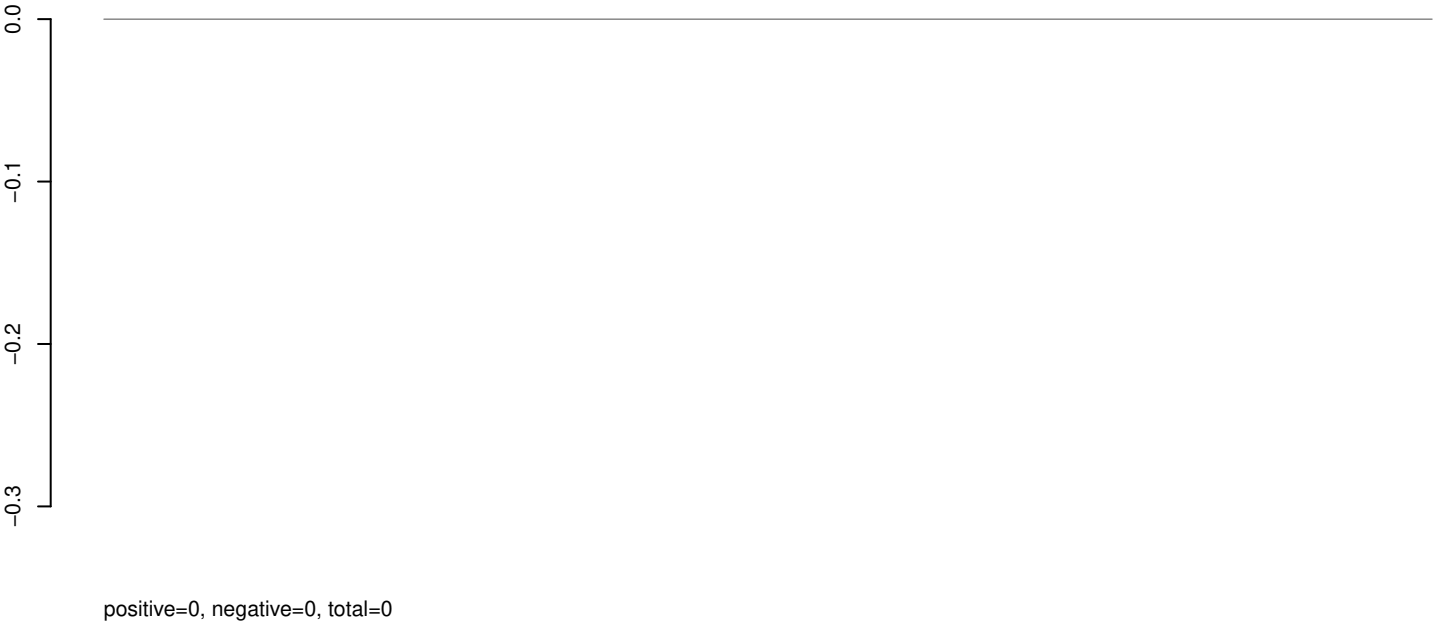




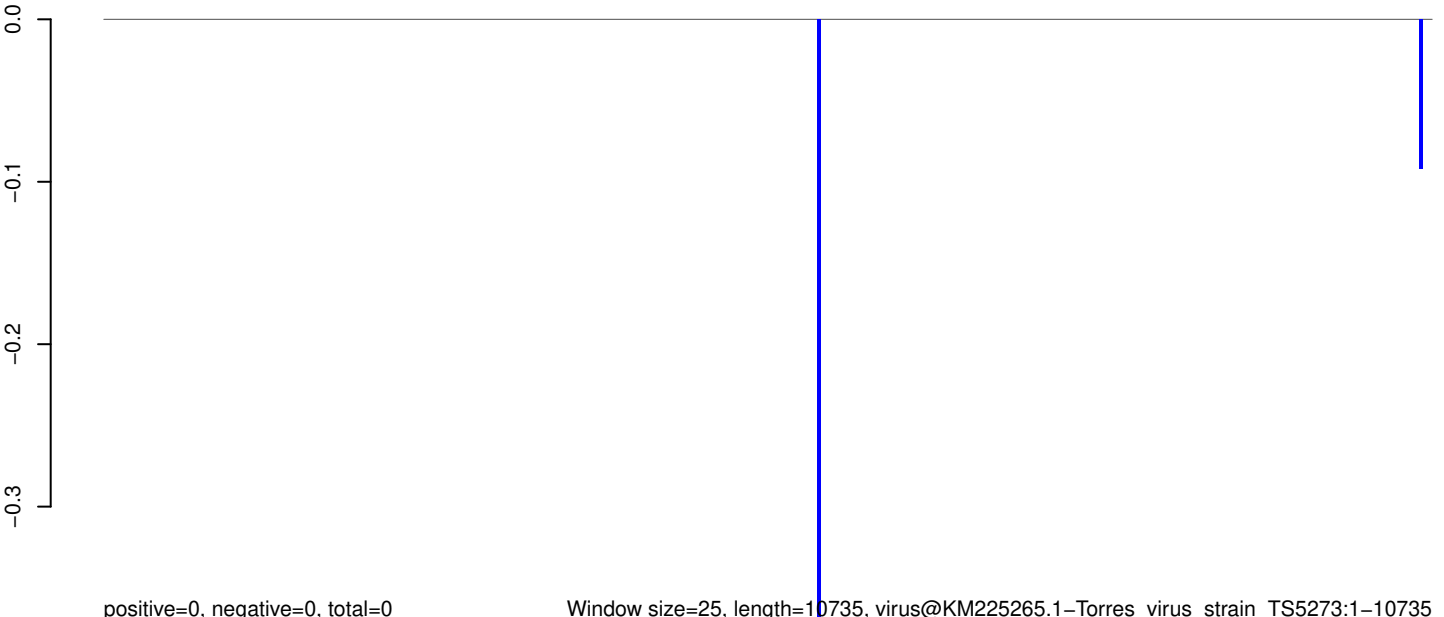
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



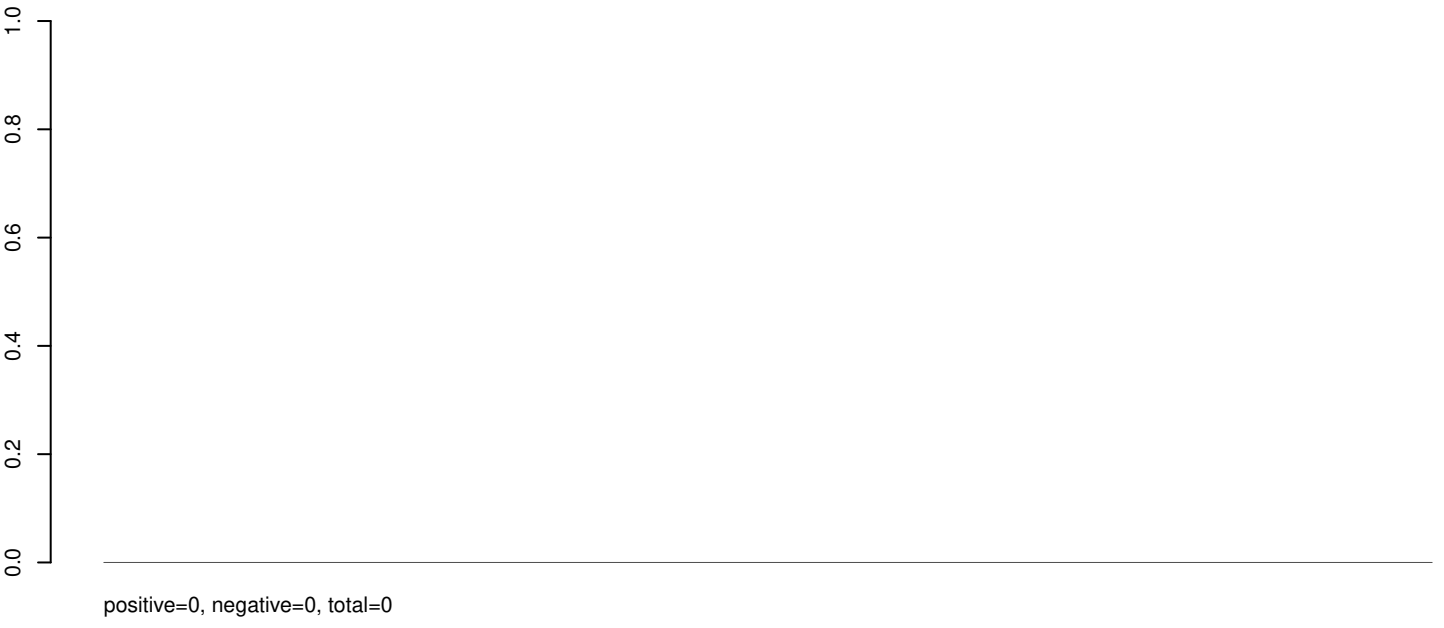
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0 2000 4000 6000 8000 10000

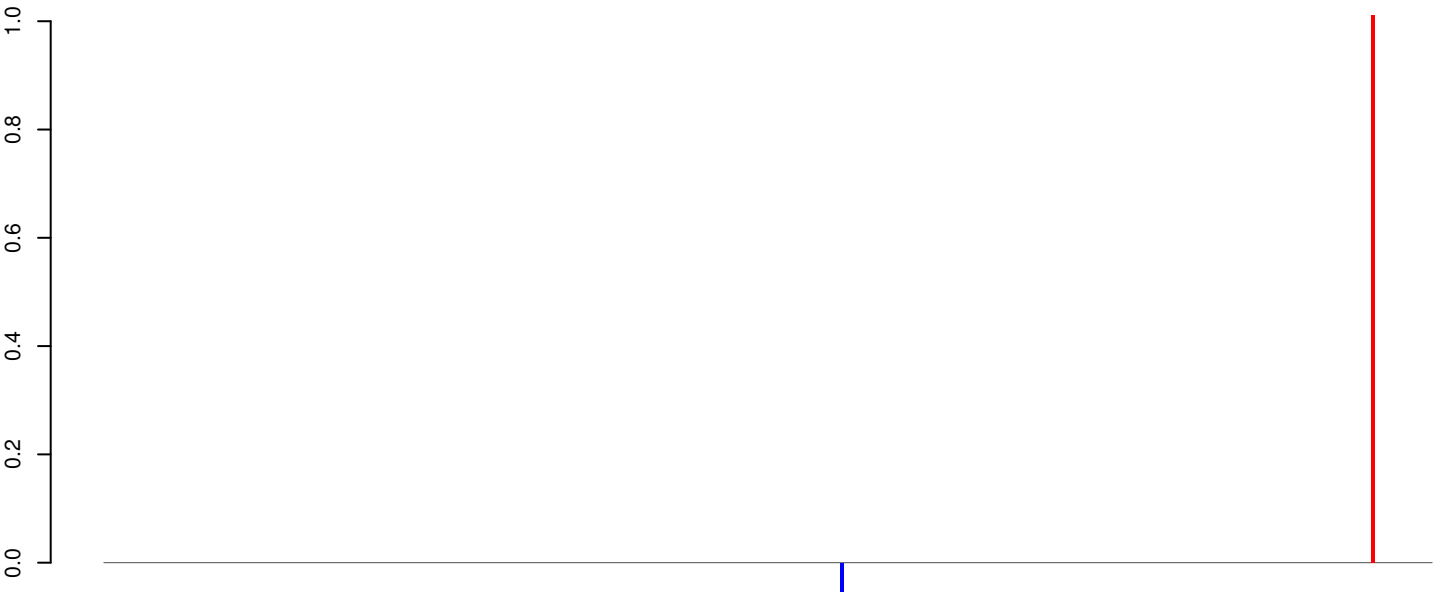
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



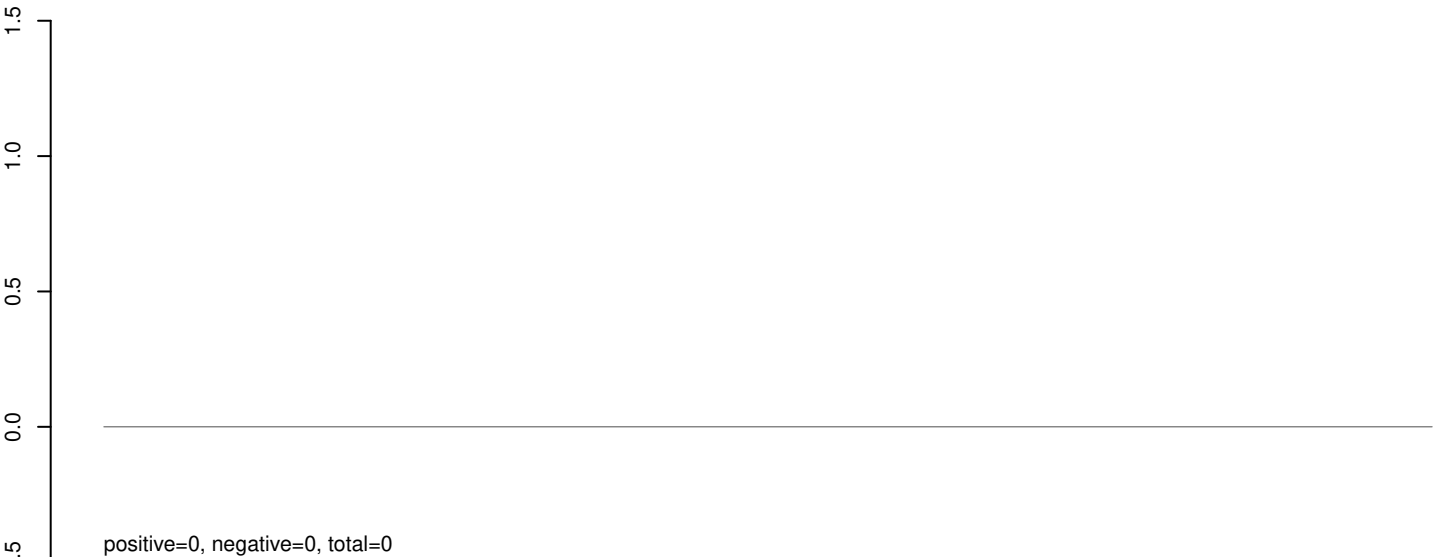
width=25, length=10302, virus@EU082200.2-Koutango\_virus\_strain\_Dak\_Ar\_D\_5443\_polyprotein\_gene:1-10302

0 2000 4000 6000 8000 10000

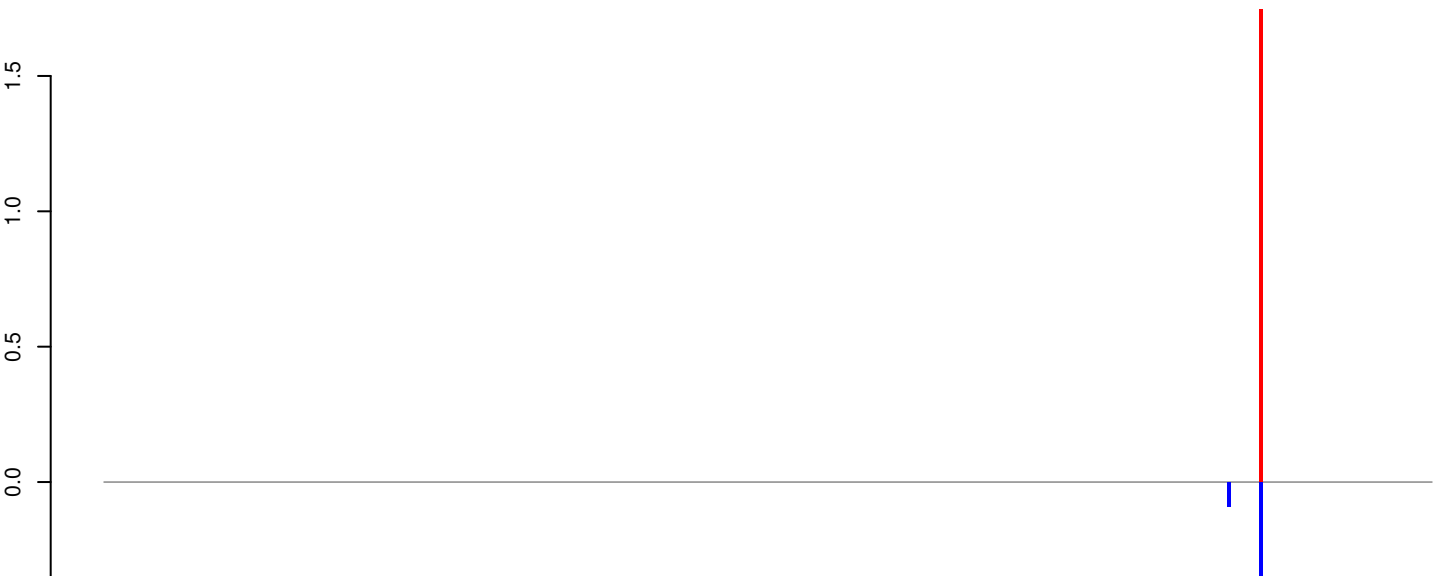
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



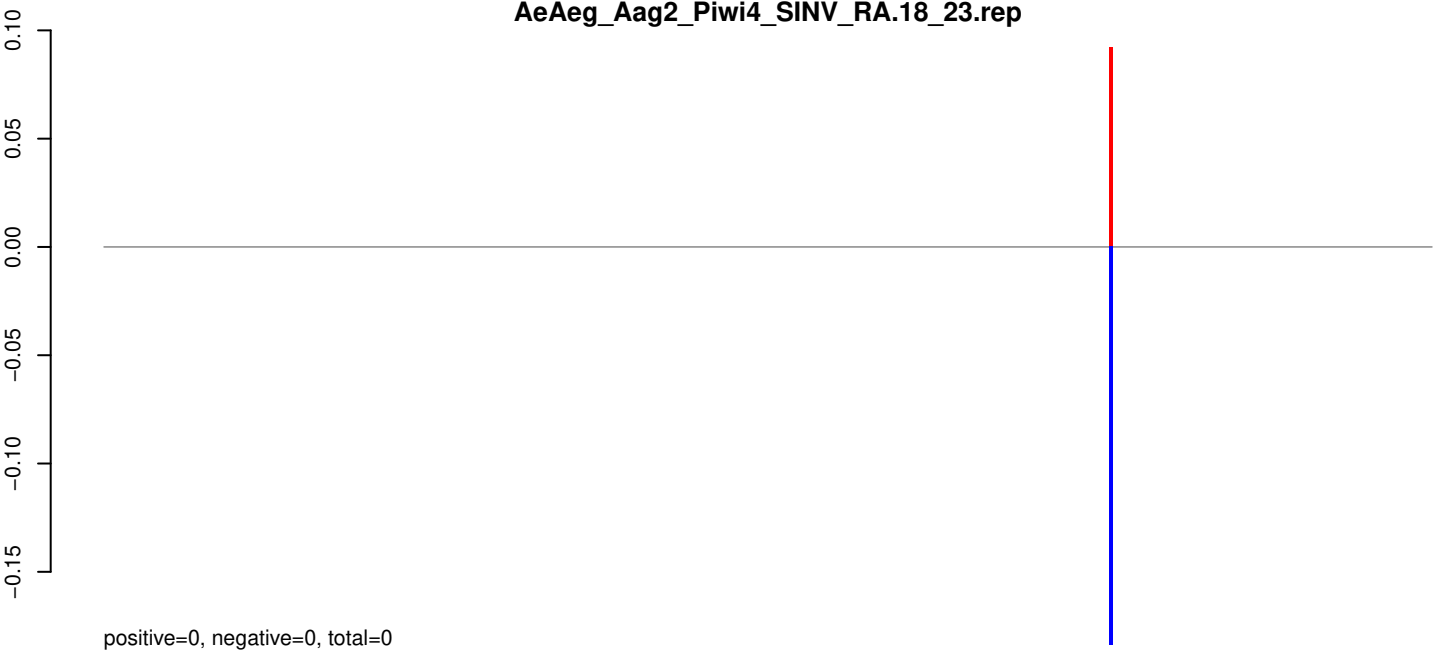
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



Window size=25, length=10182, virus@DQ859056.1-Banzi\_virus\_strain\_SAH\_336\_polyprotein\_gene:1-10182

0 2000 4000 6000 8000 10000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



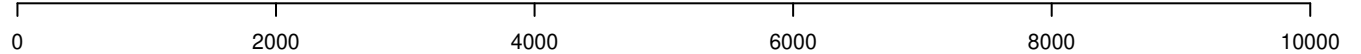
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



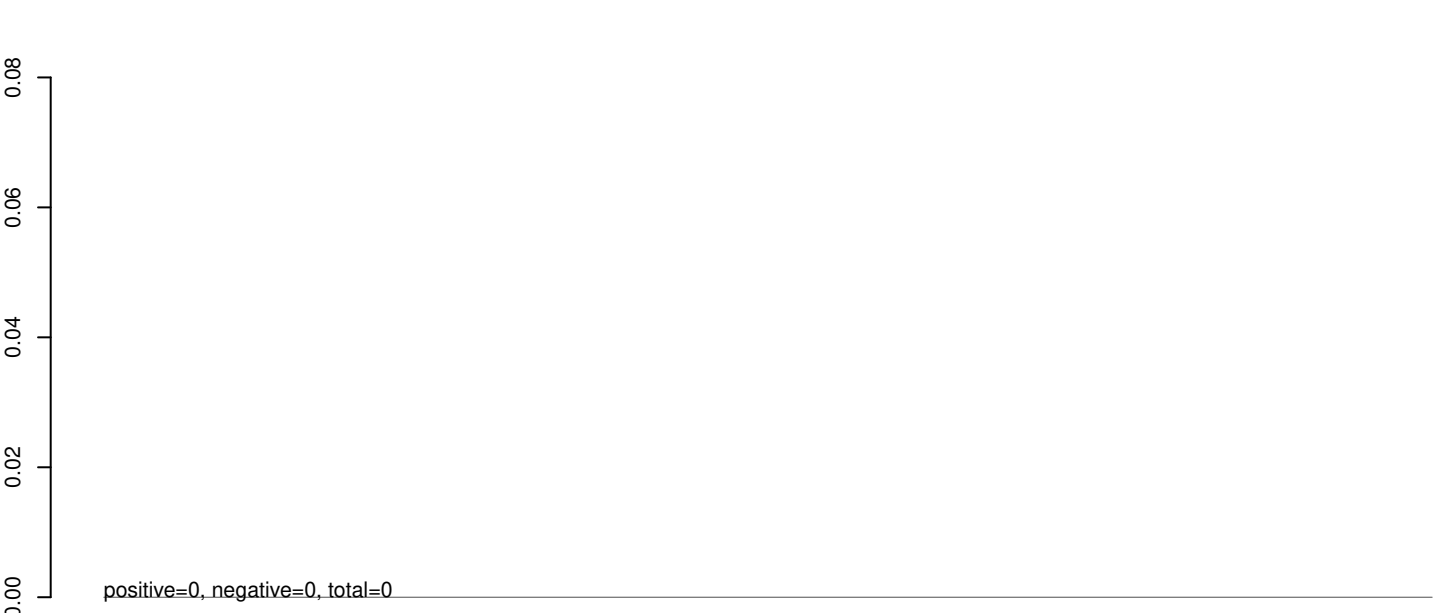
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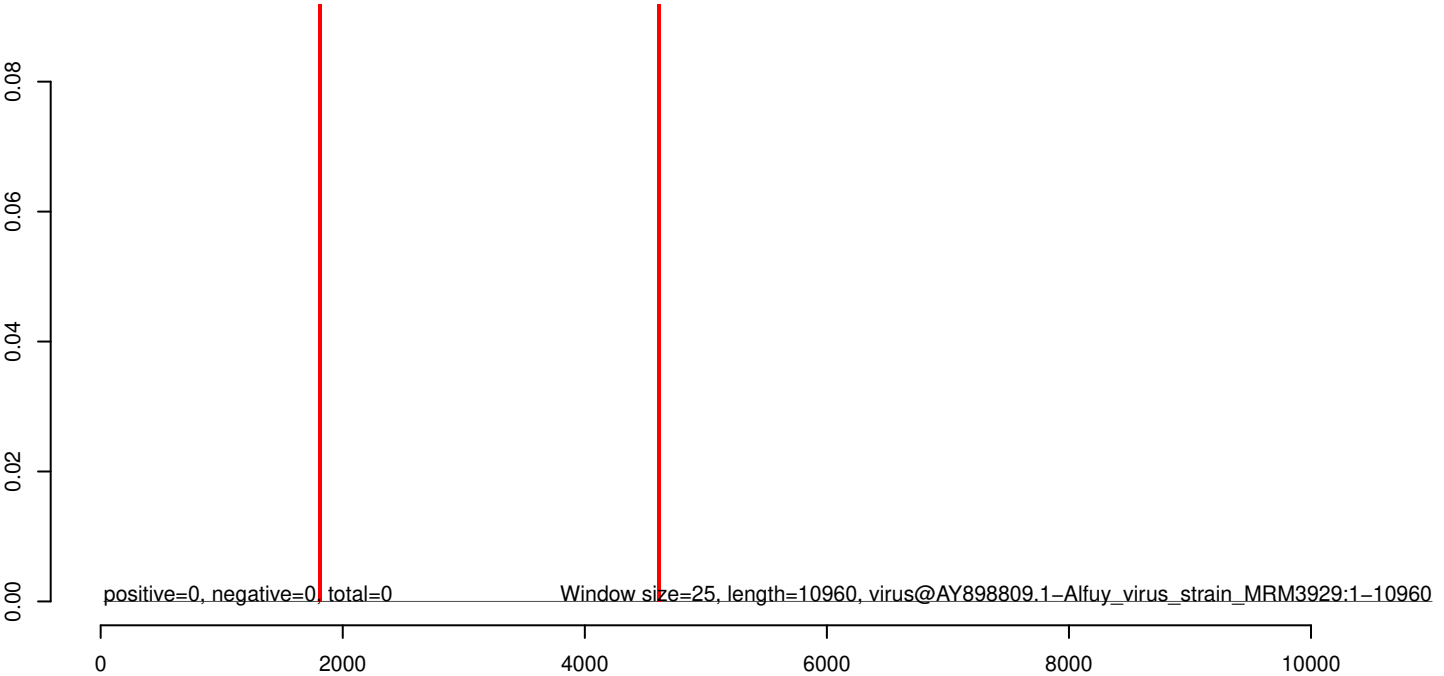
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



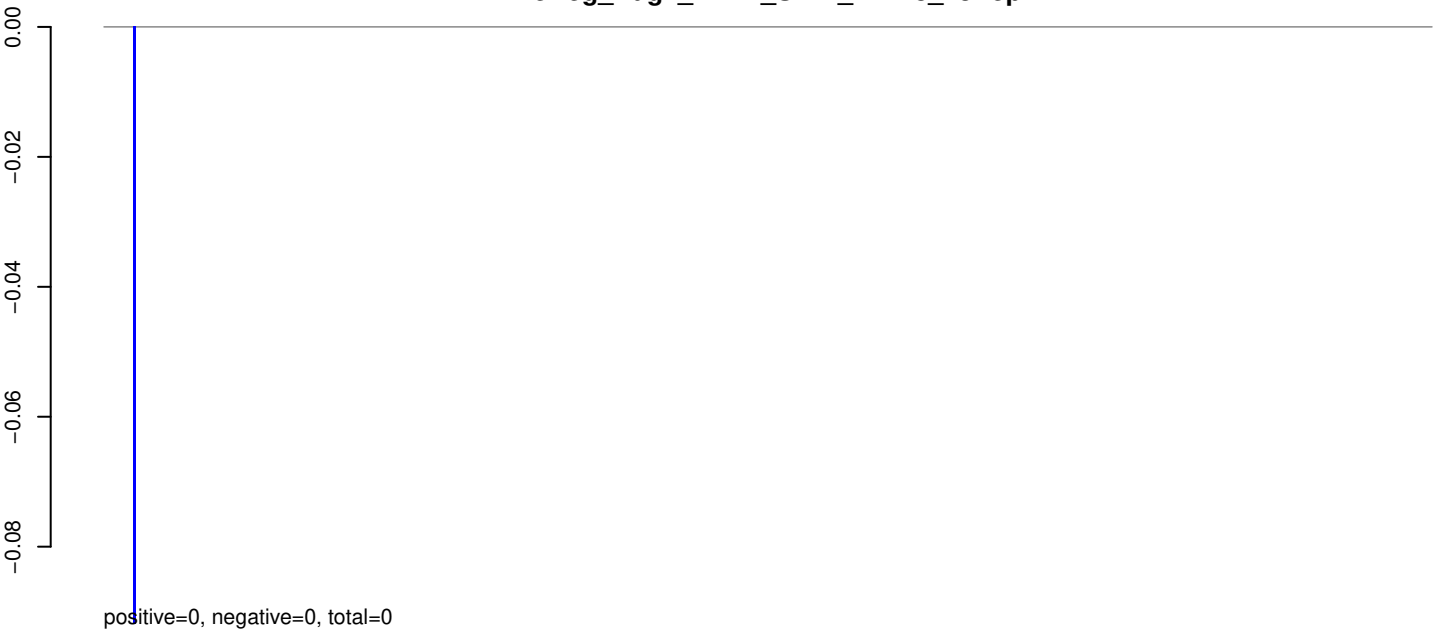
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



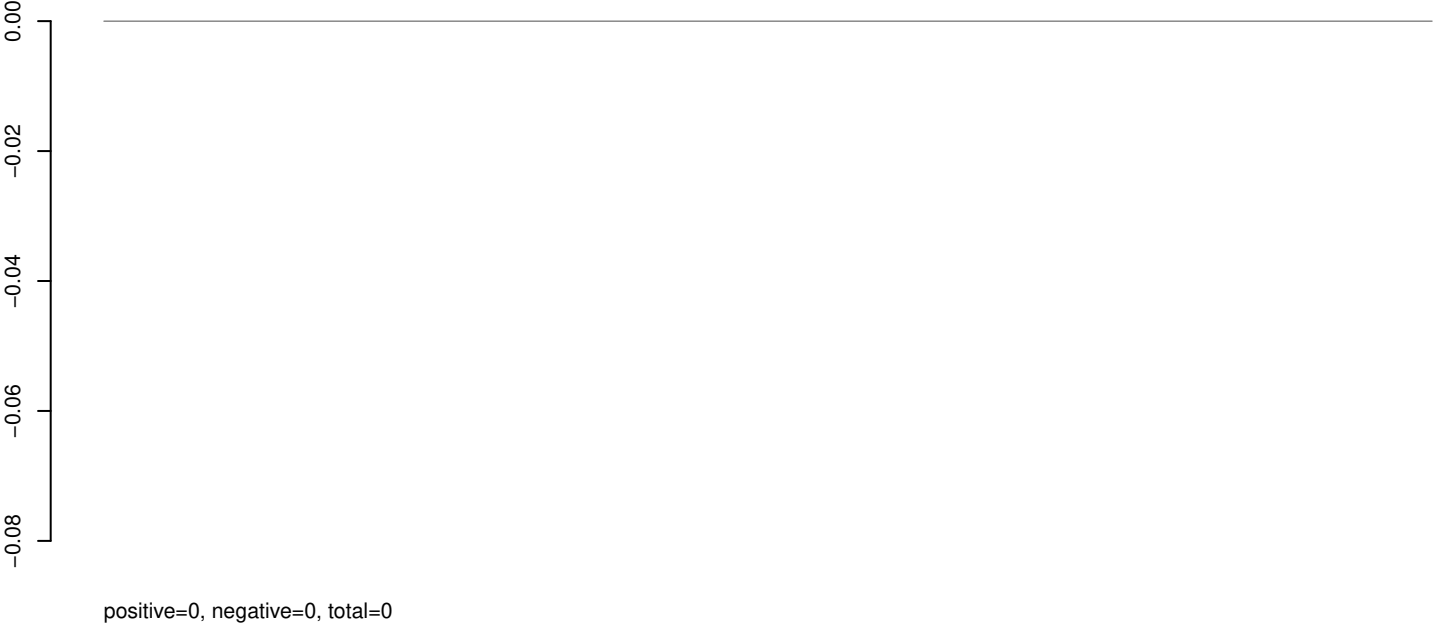
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



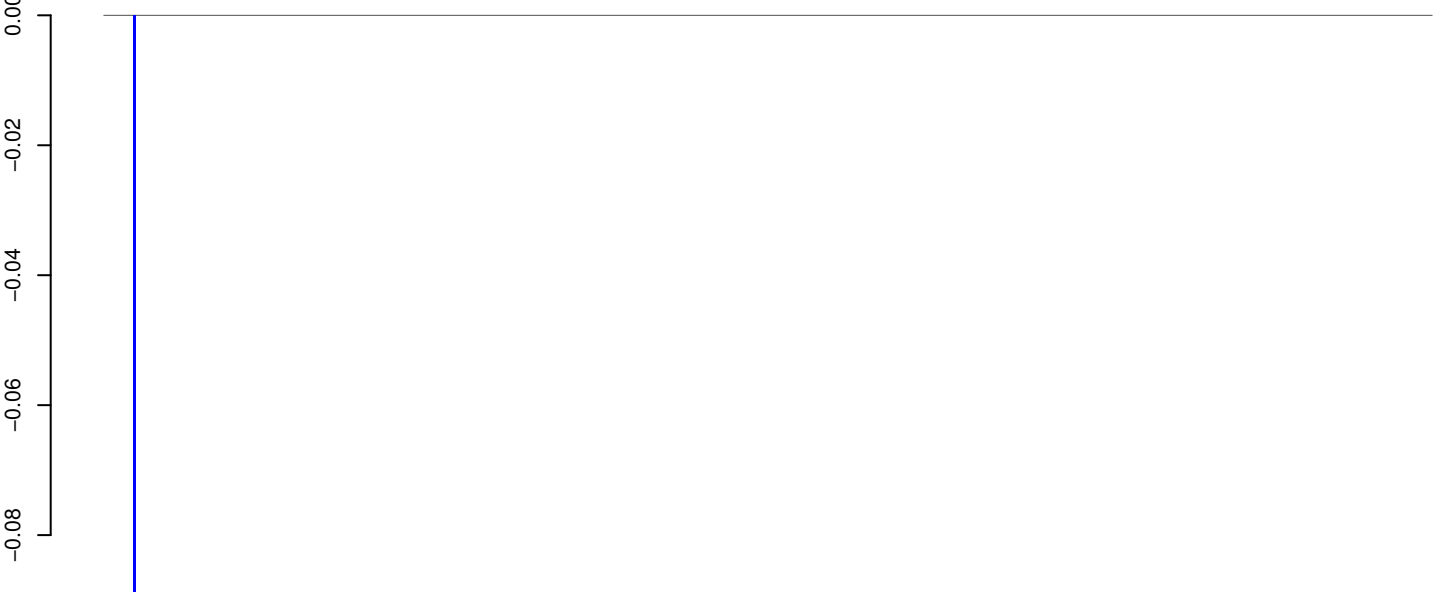
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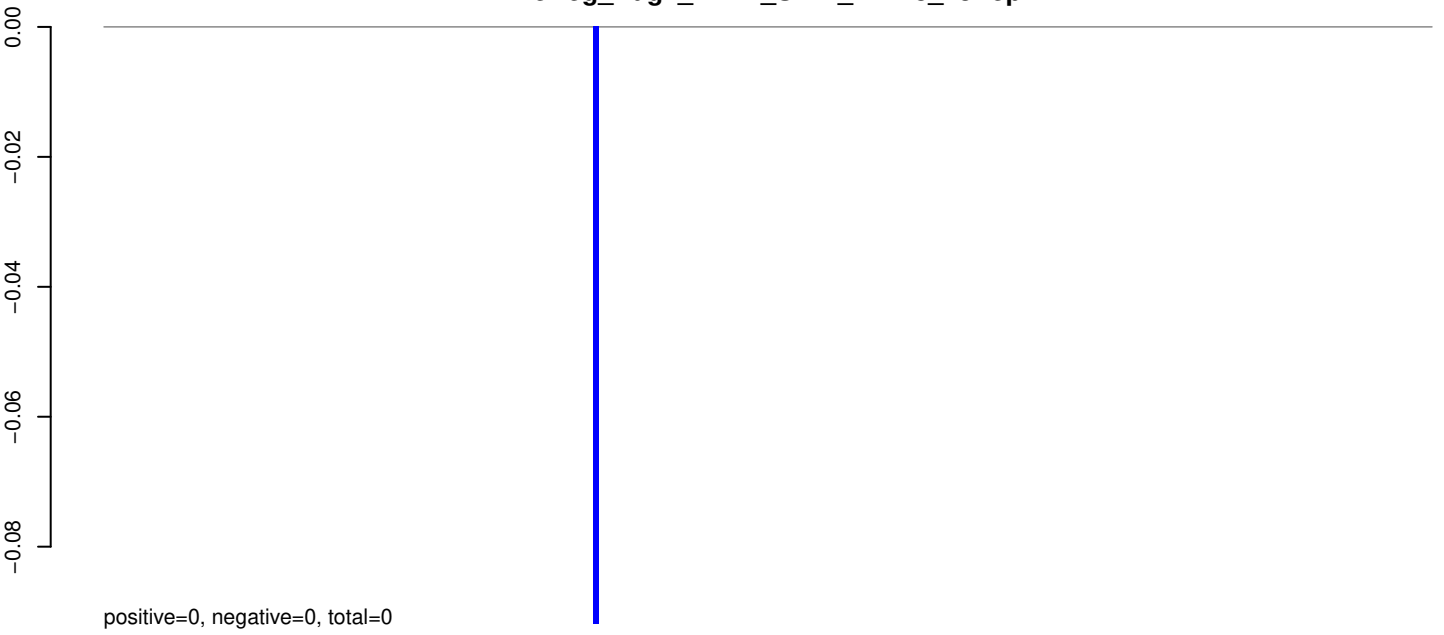
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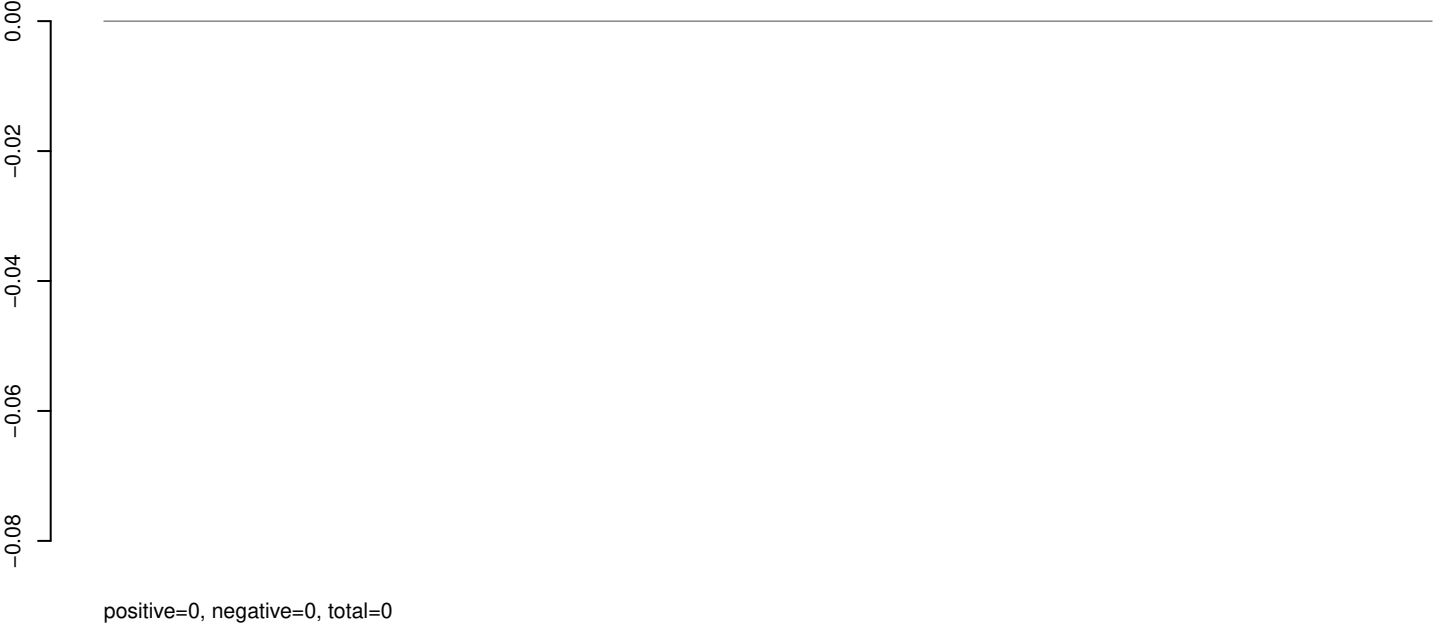
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



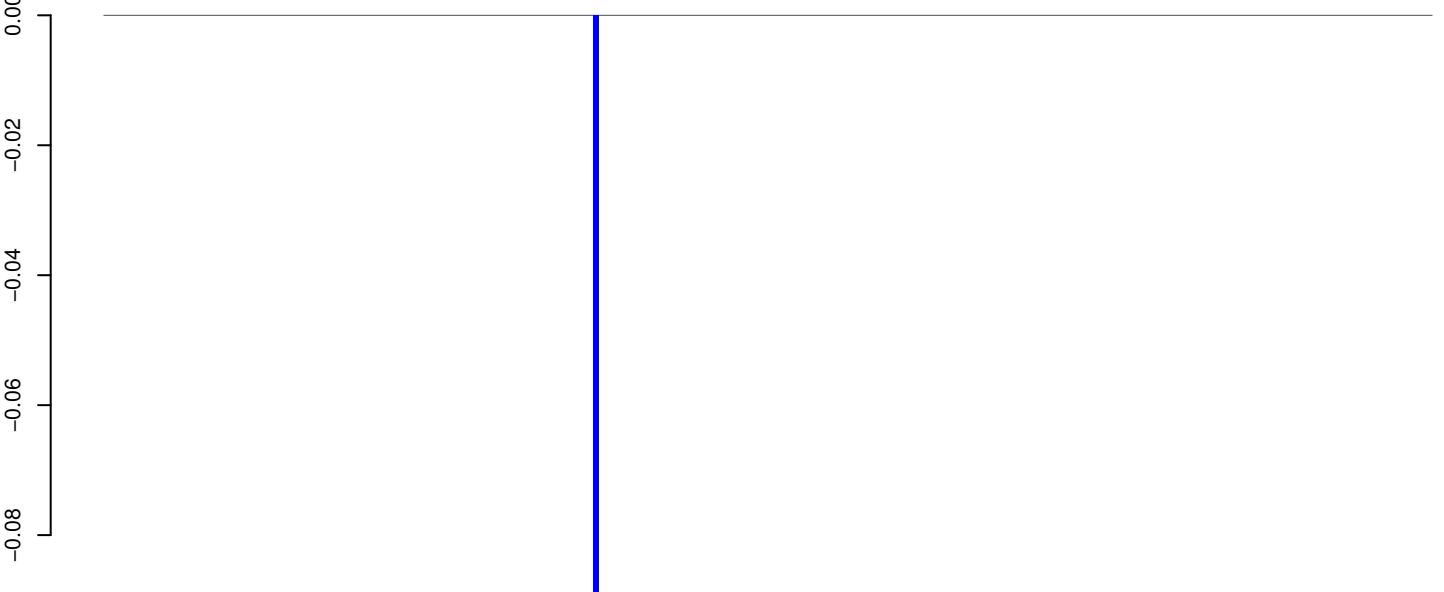
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



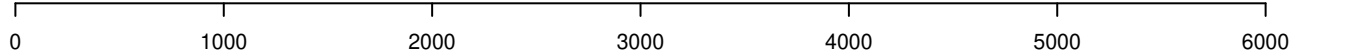
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



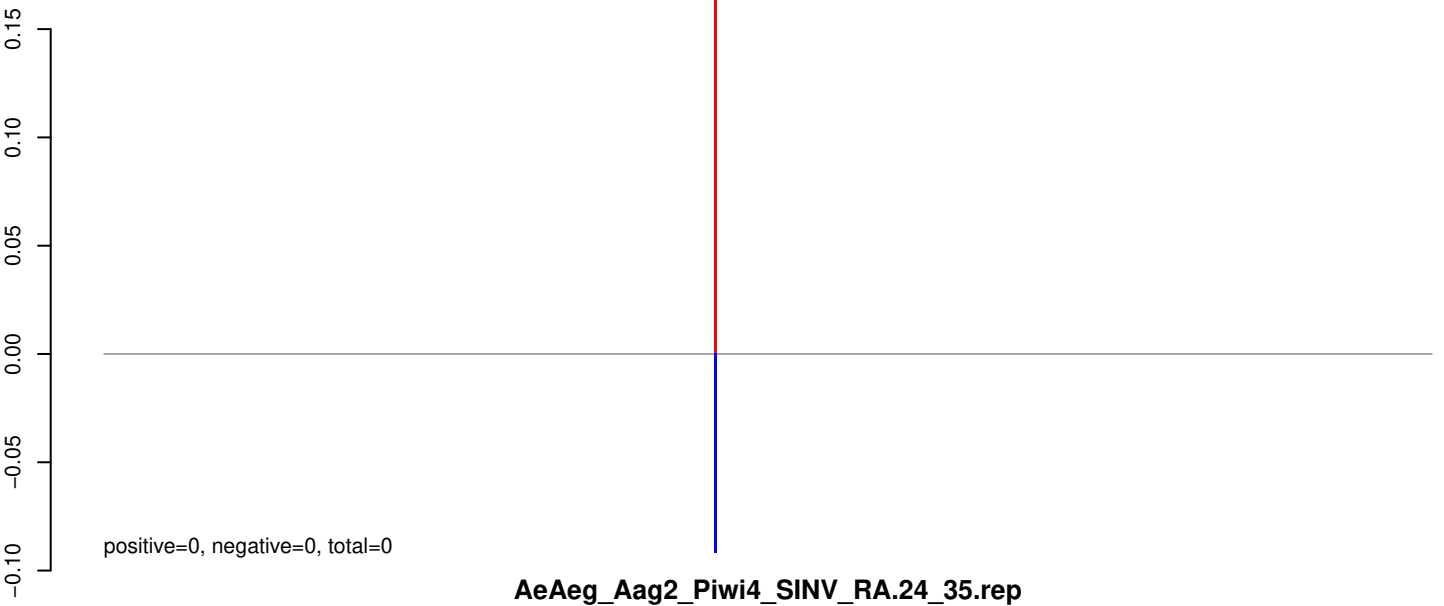
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



Window Size=25 length=6363, virus@NC\_035130.1\_Aedes\_alboannulatus\_toti-like\_virus\_1\_strain\_mosWSCP114121:1-6363



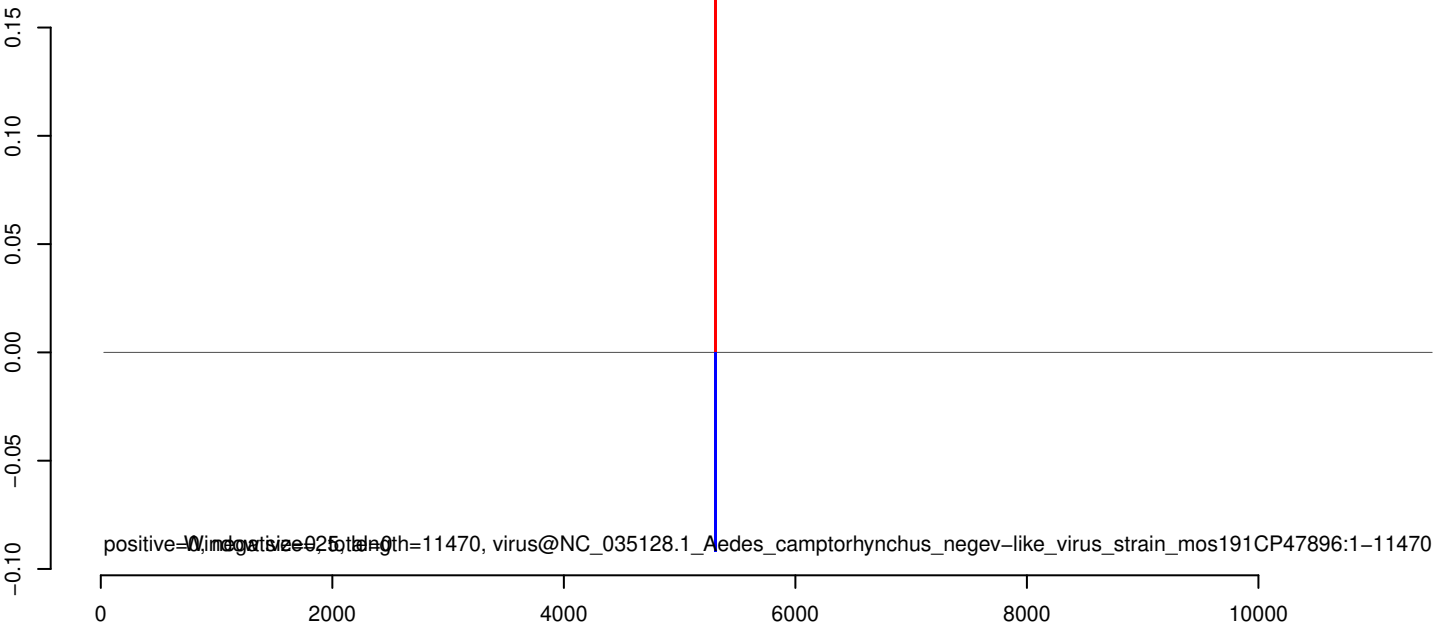
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

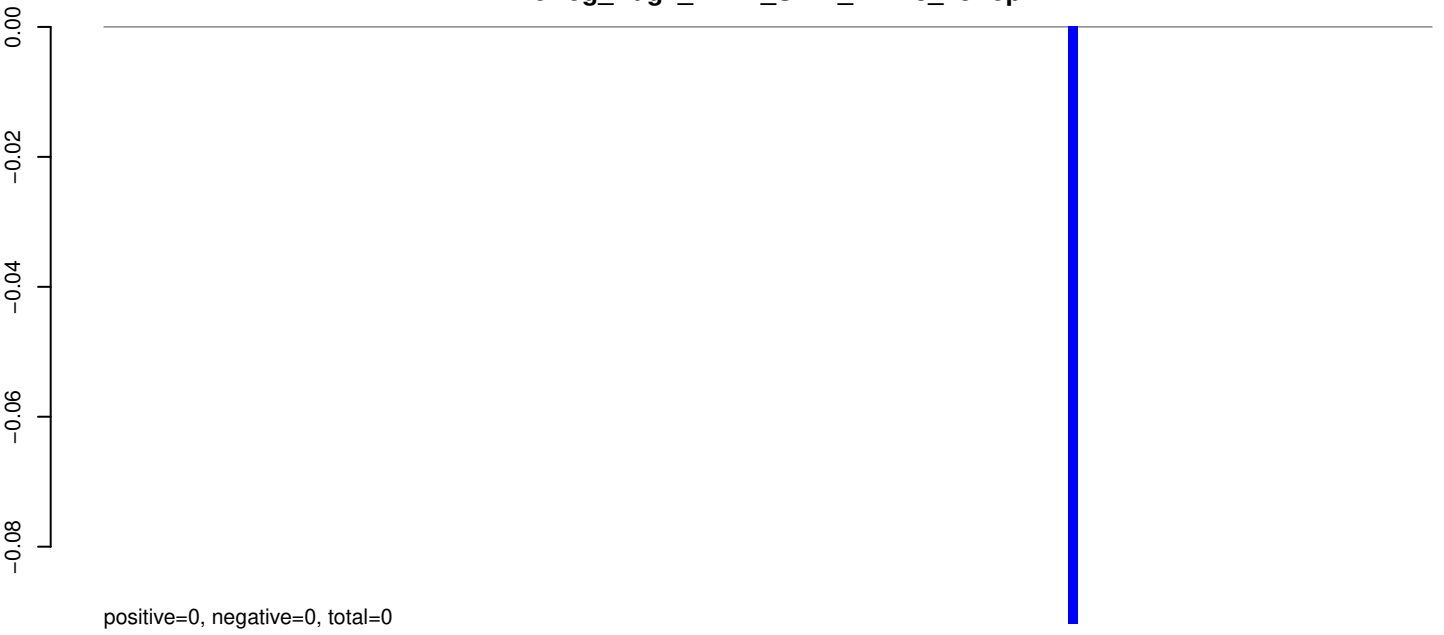


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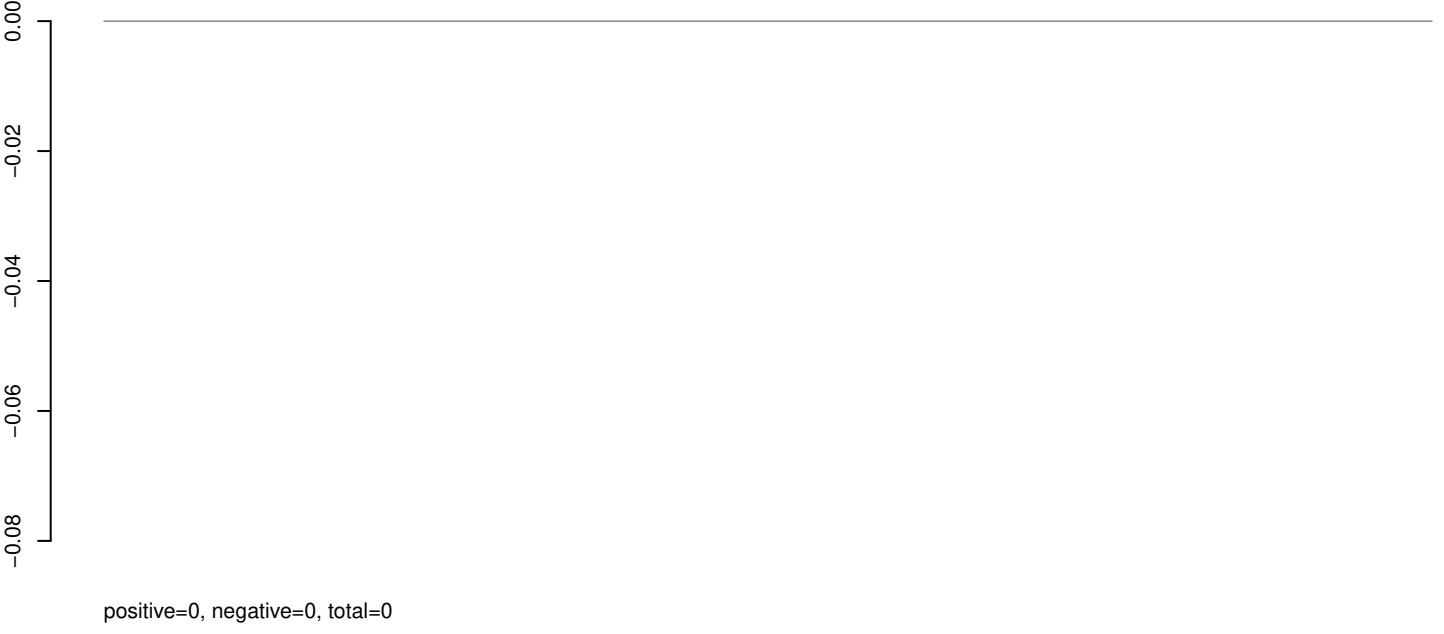




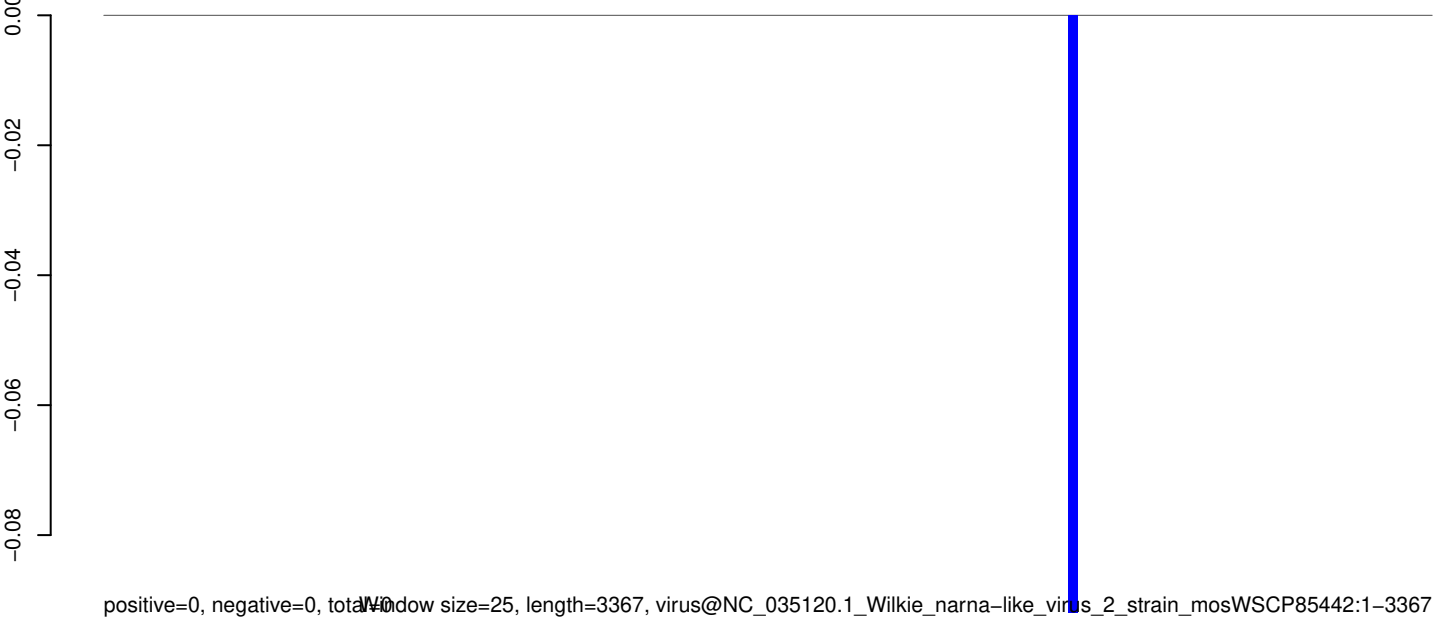
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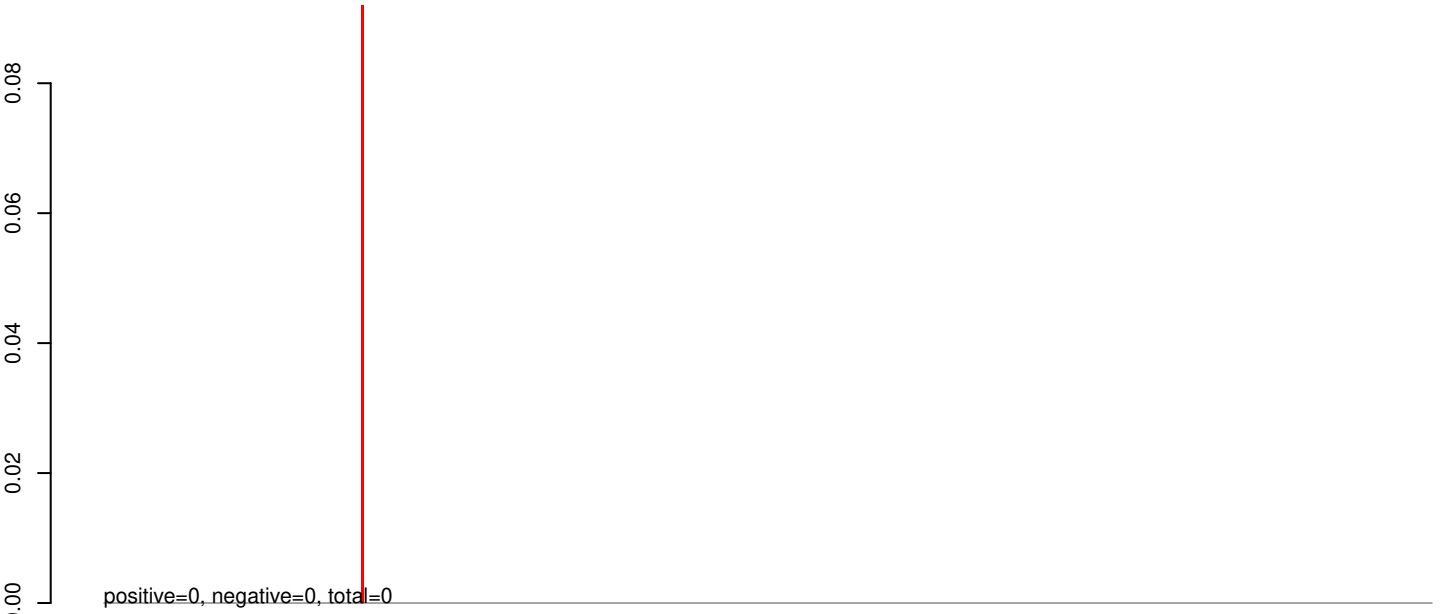
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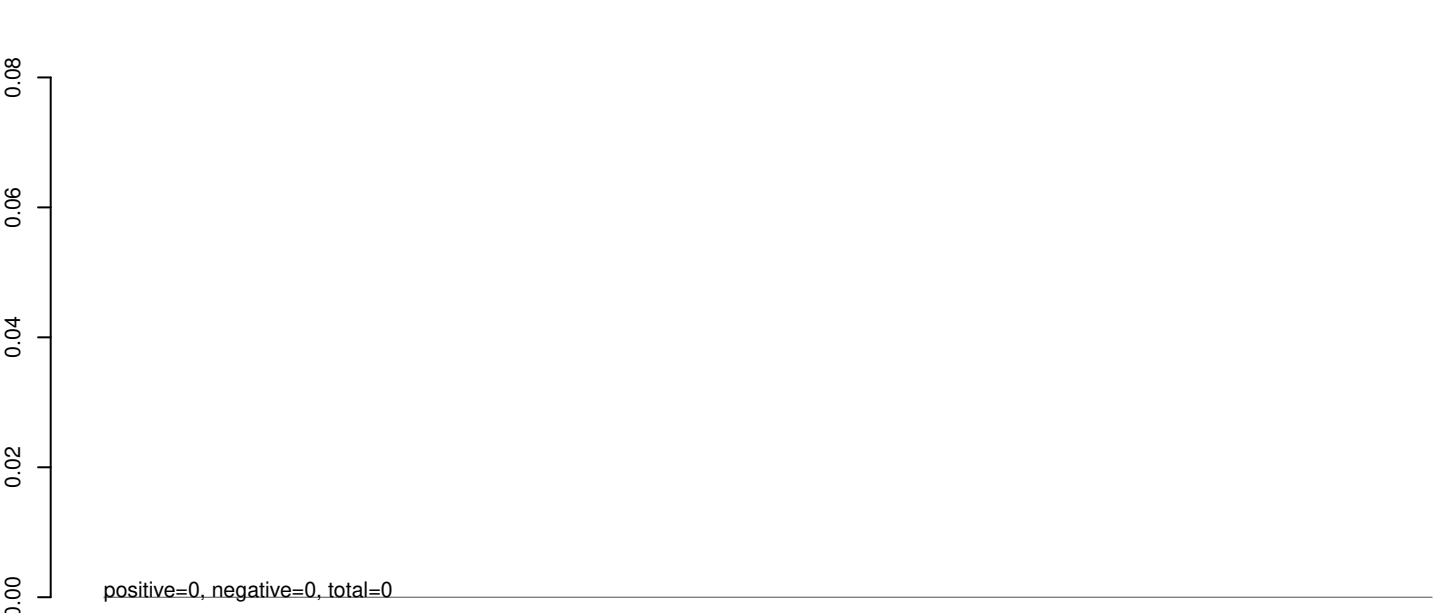
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



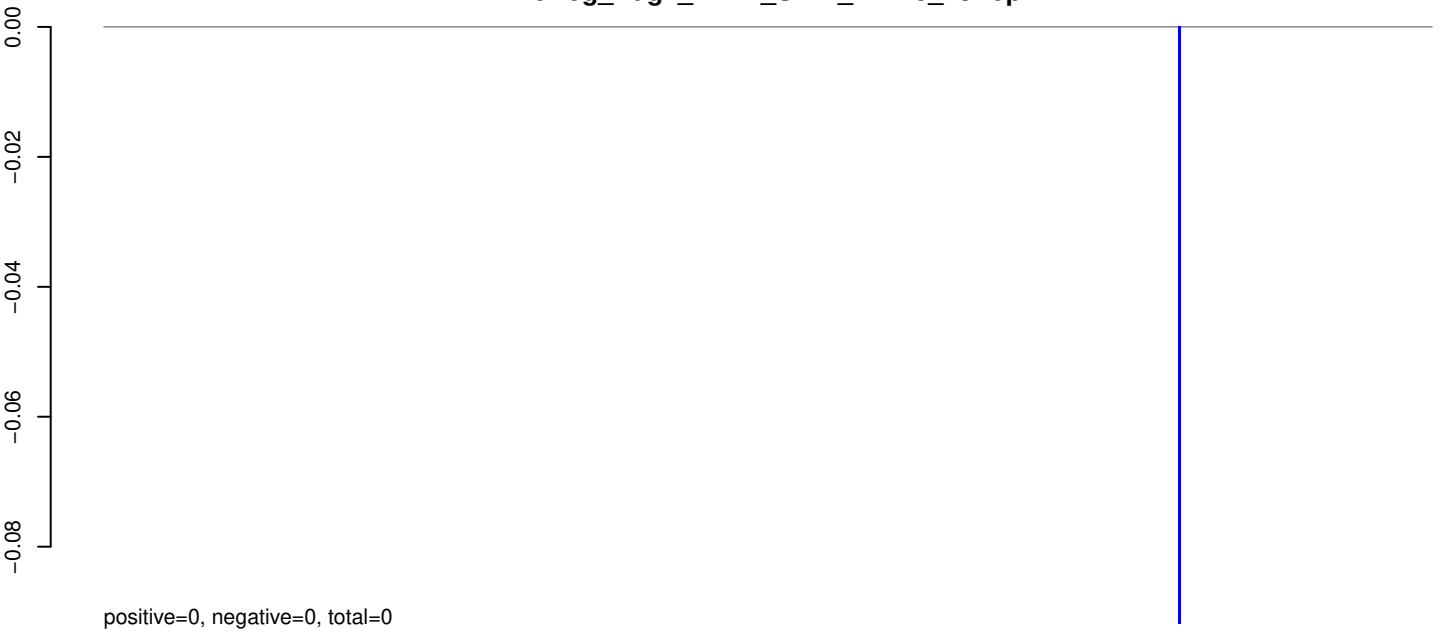
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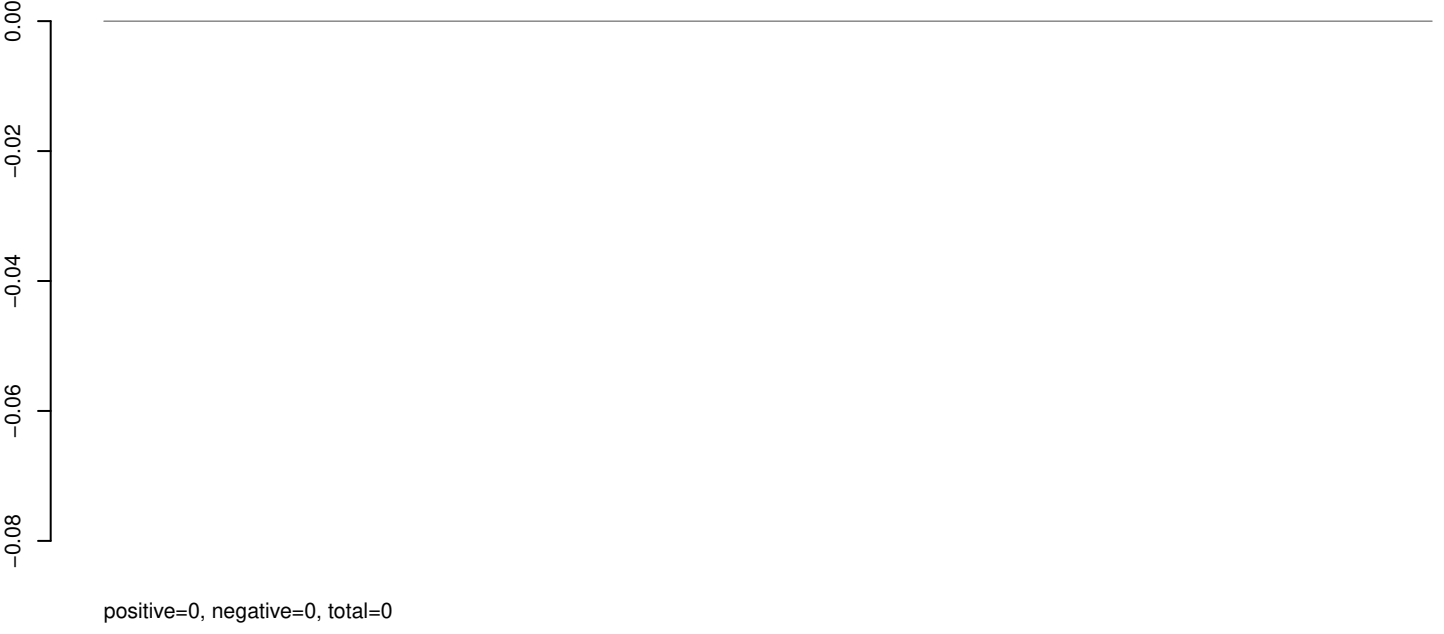
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



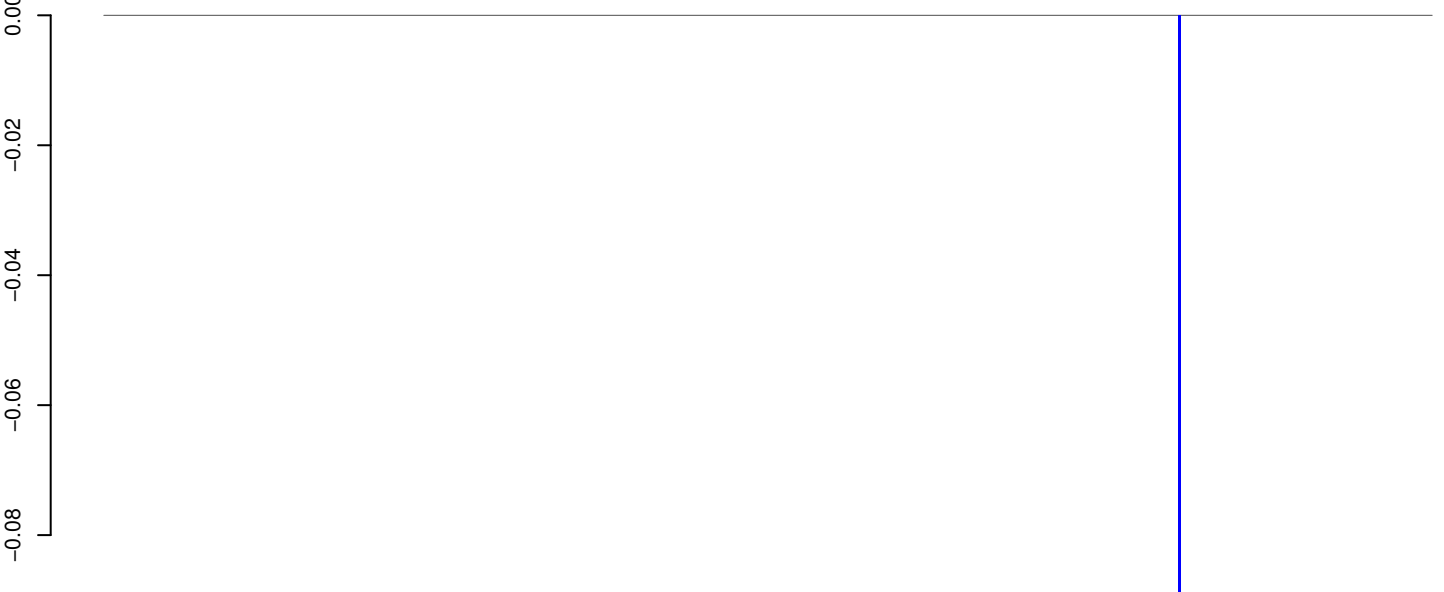
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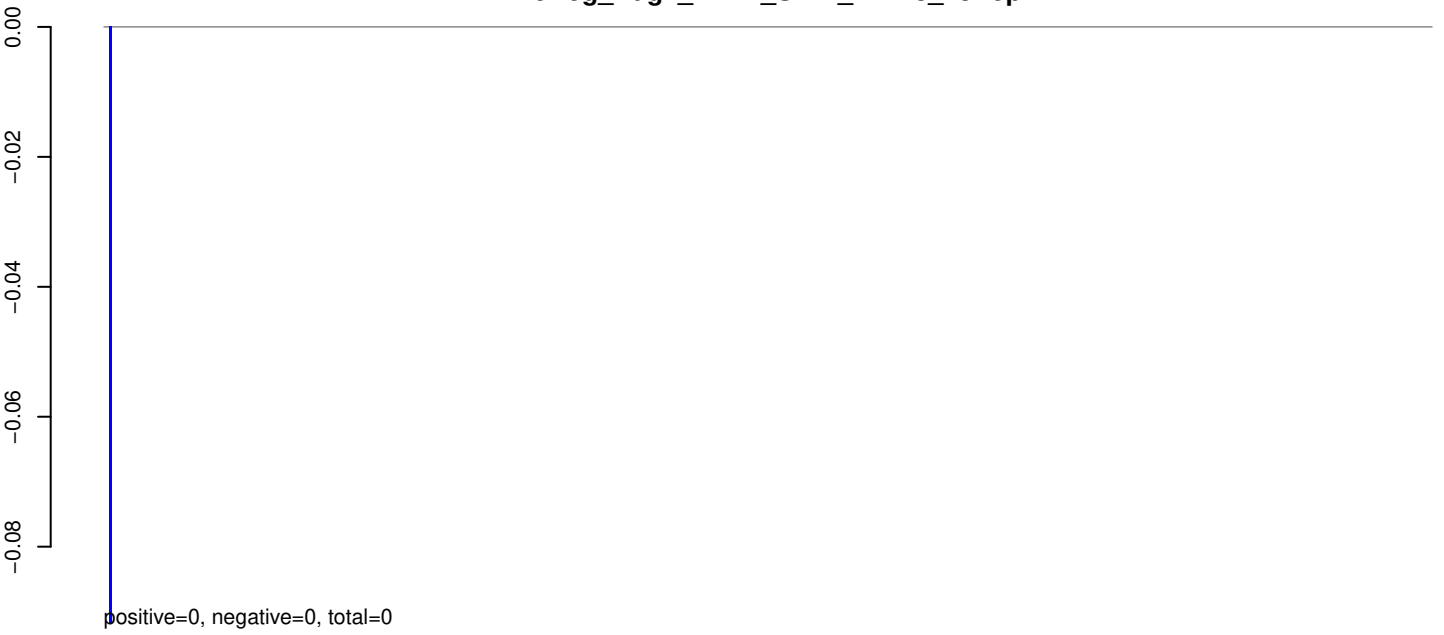
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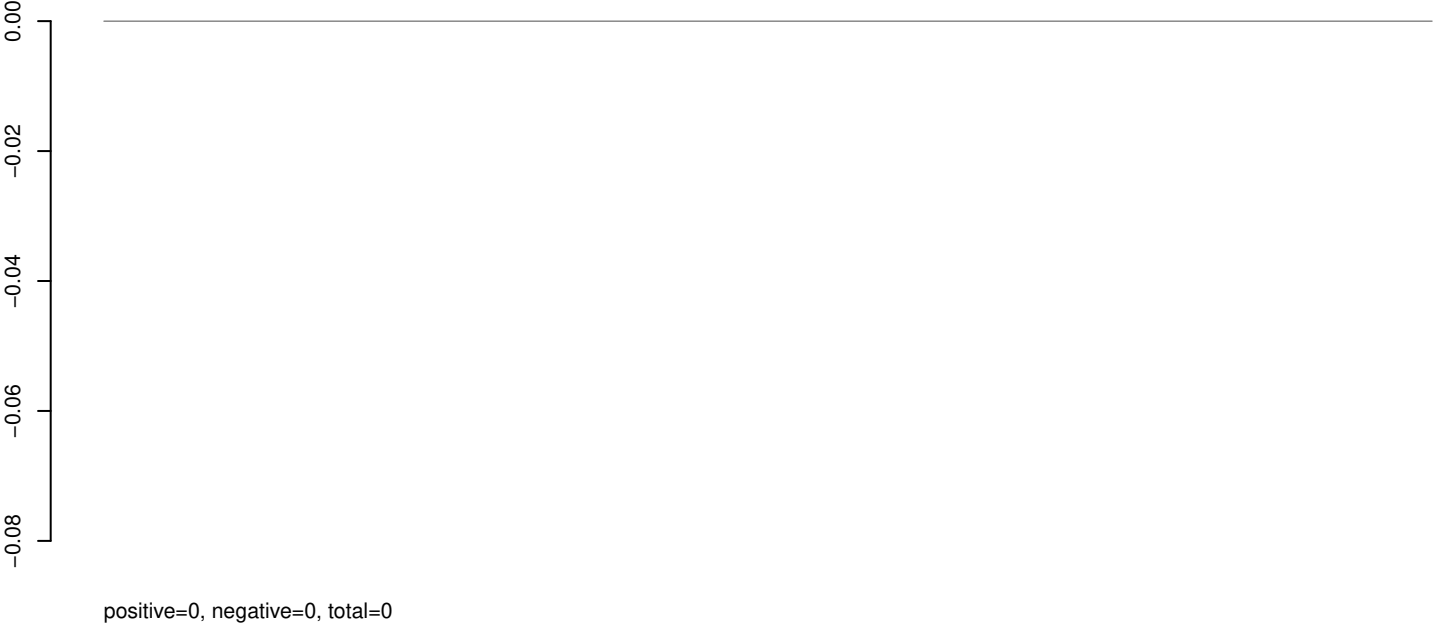
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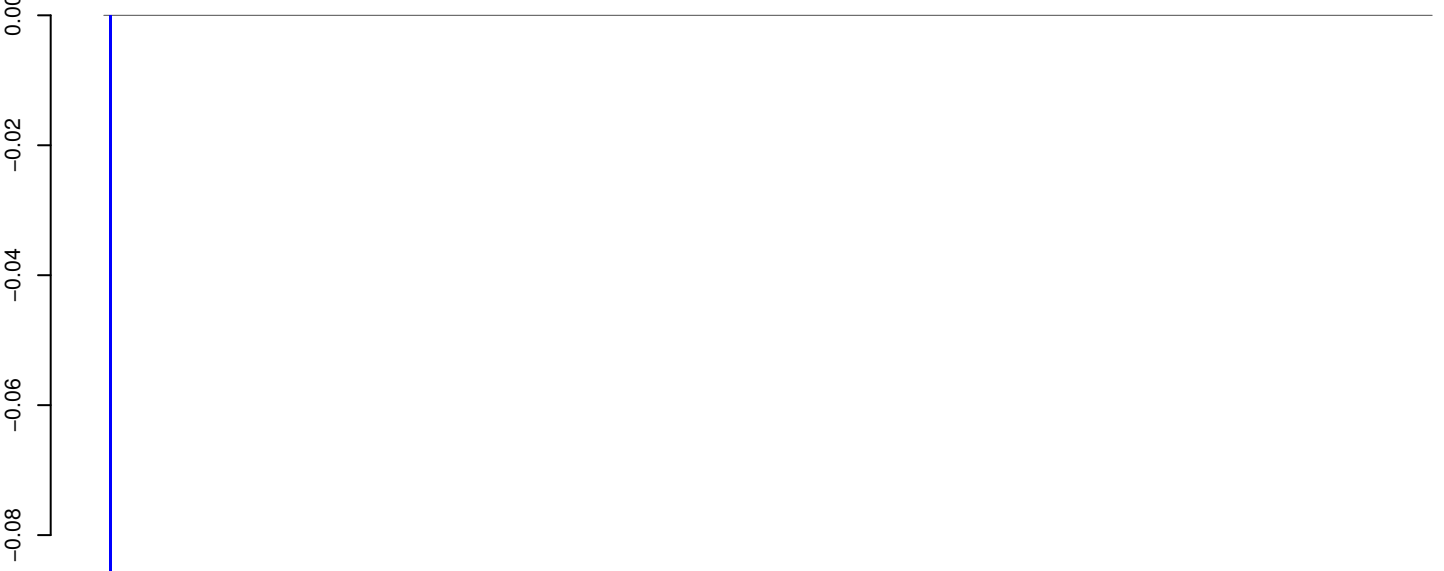
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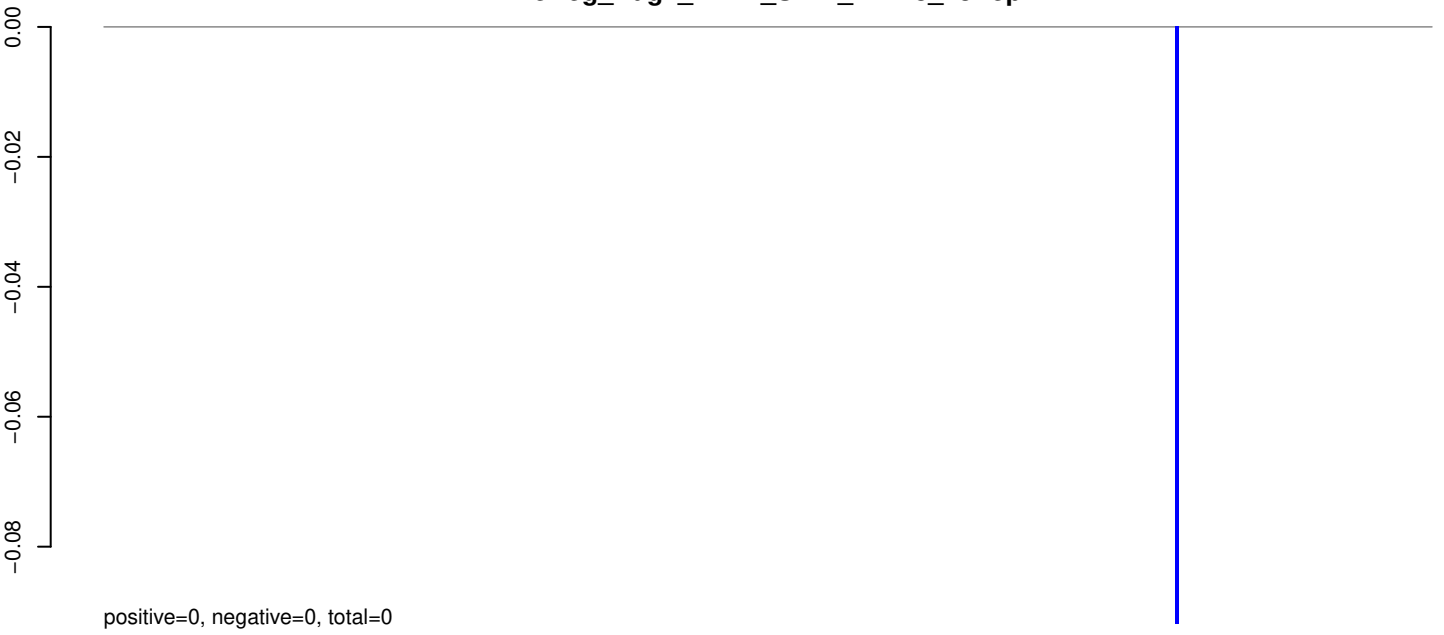
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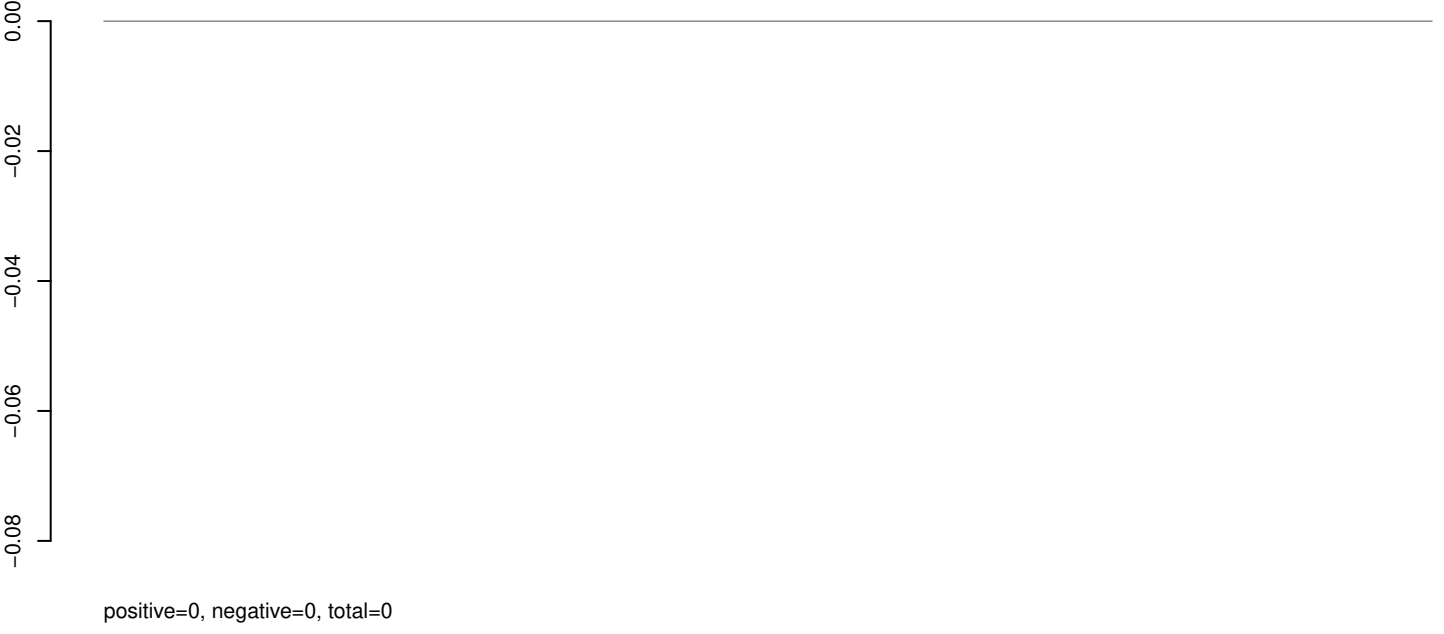
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



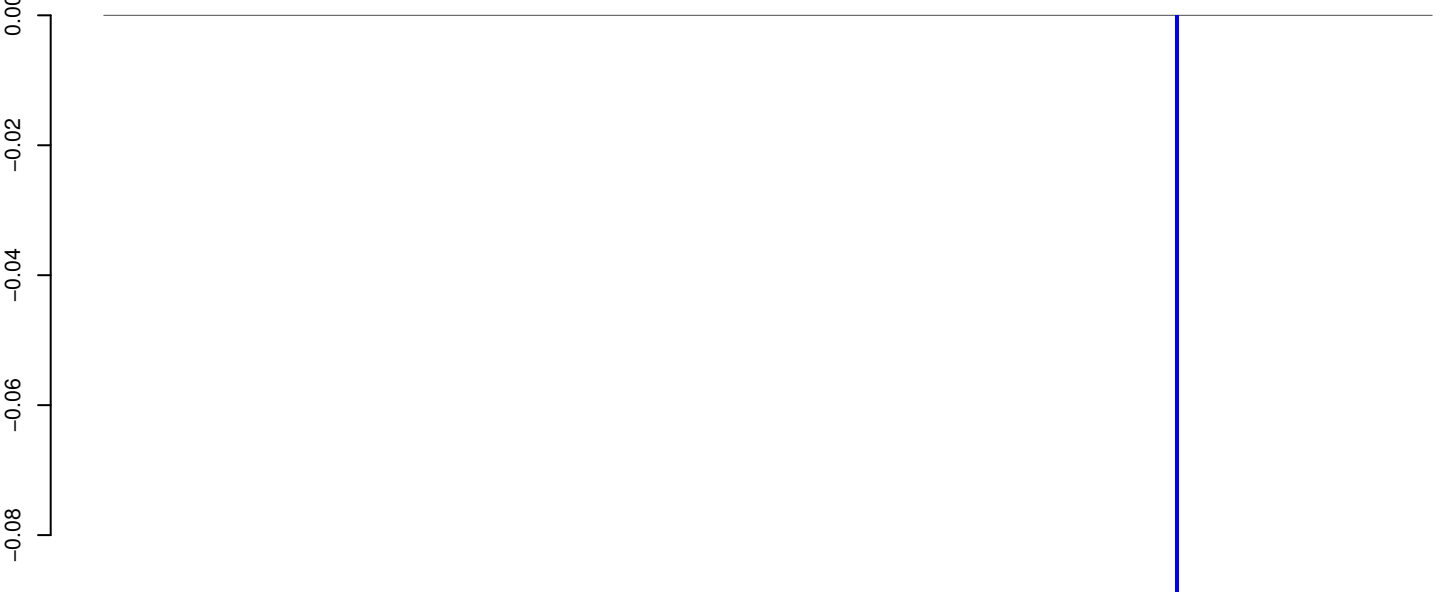
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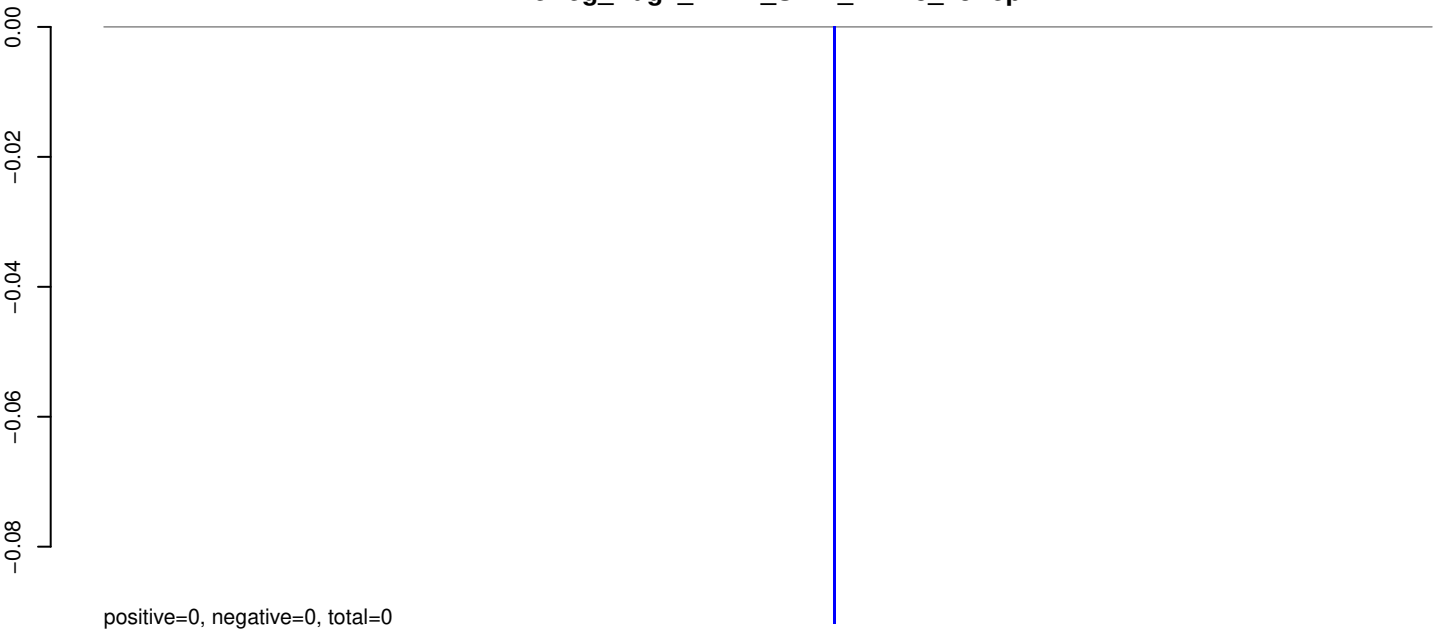
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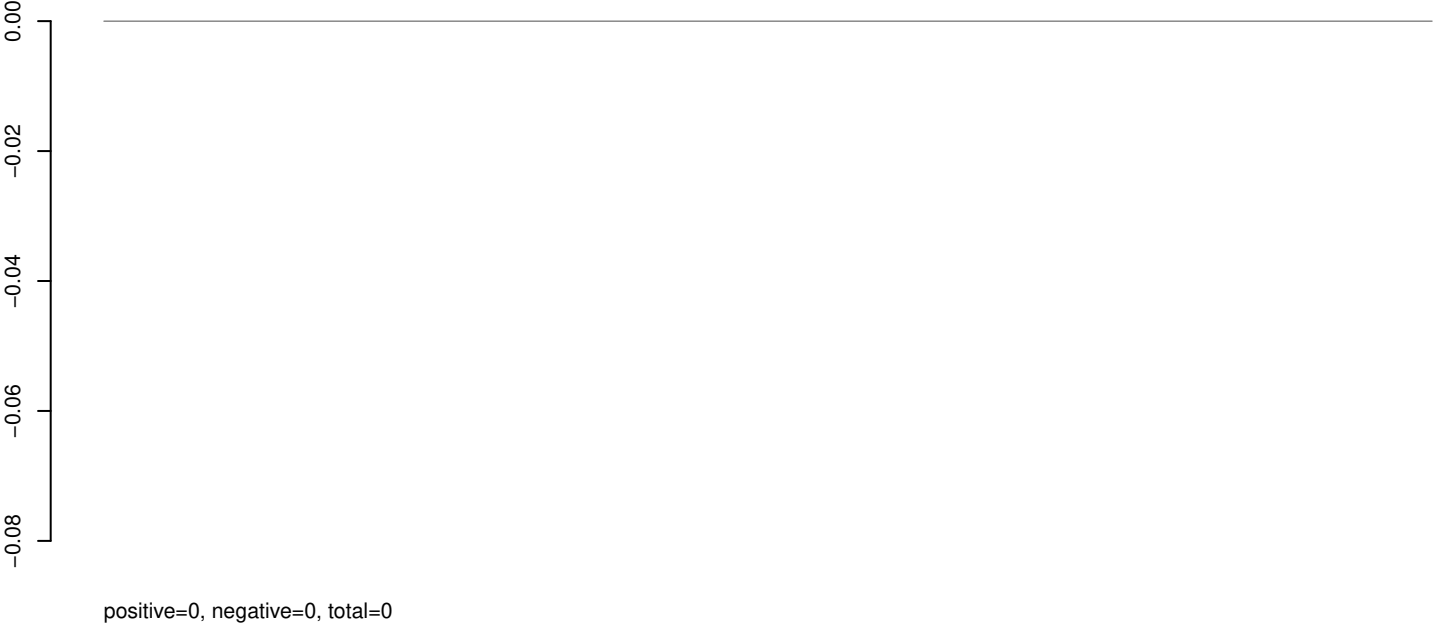
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



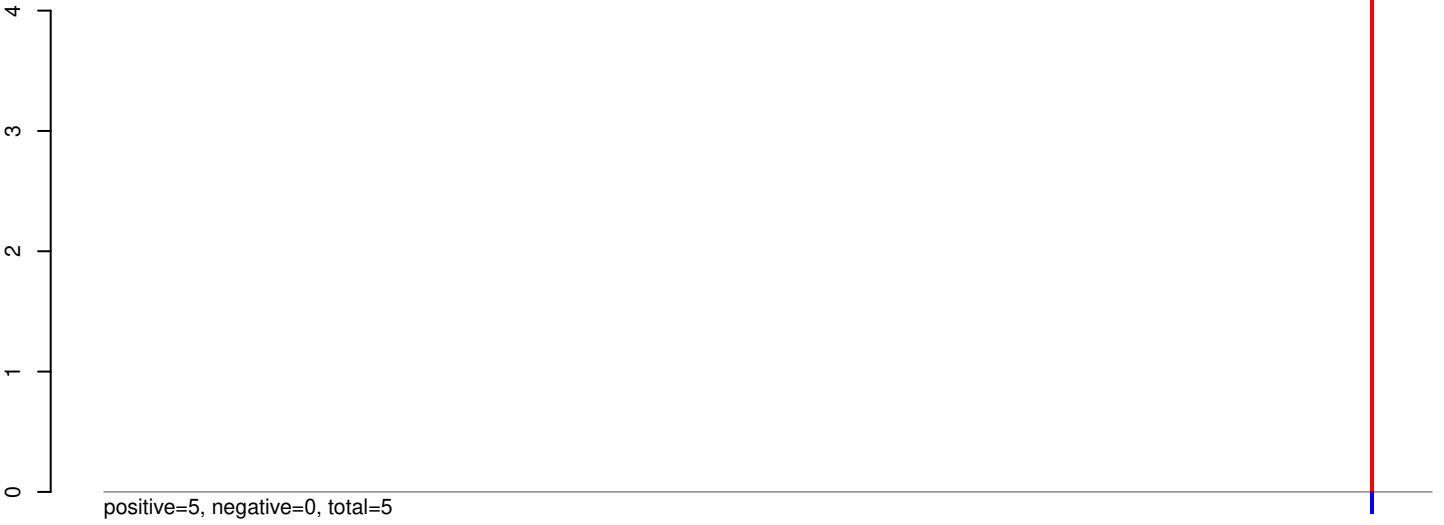
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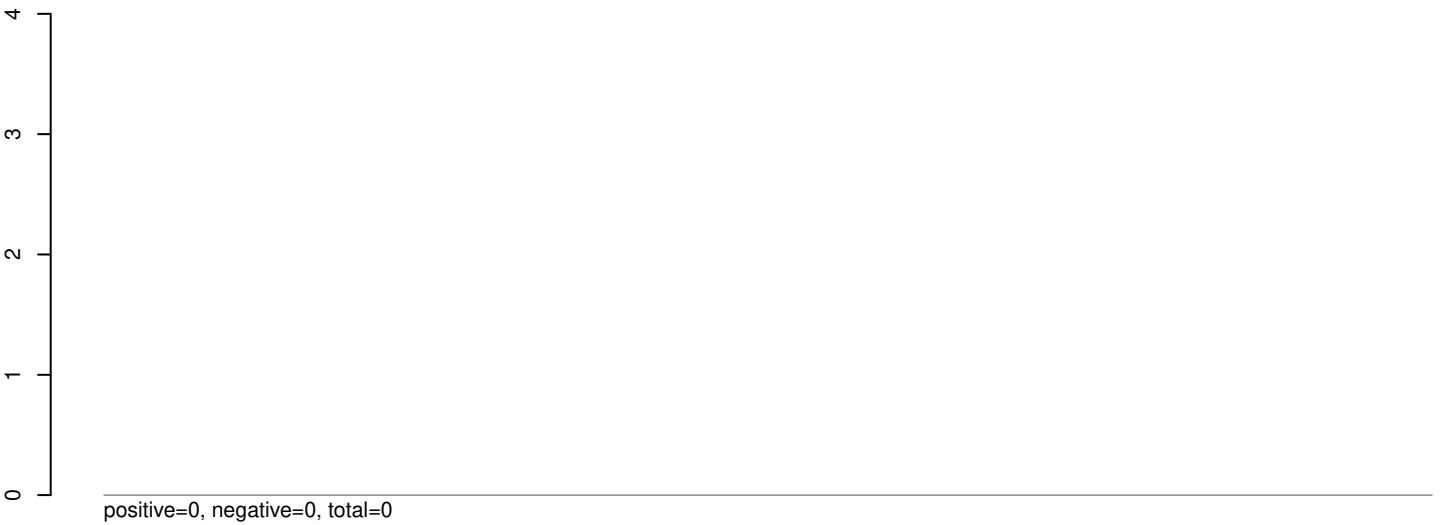
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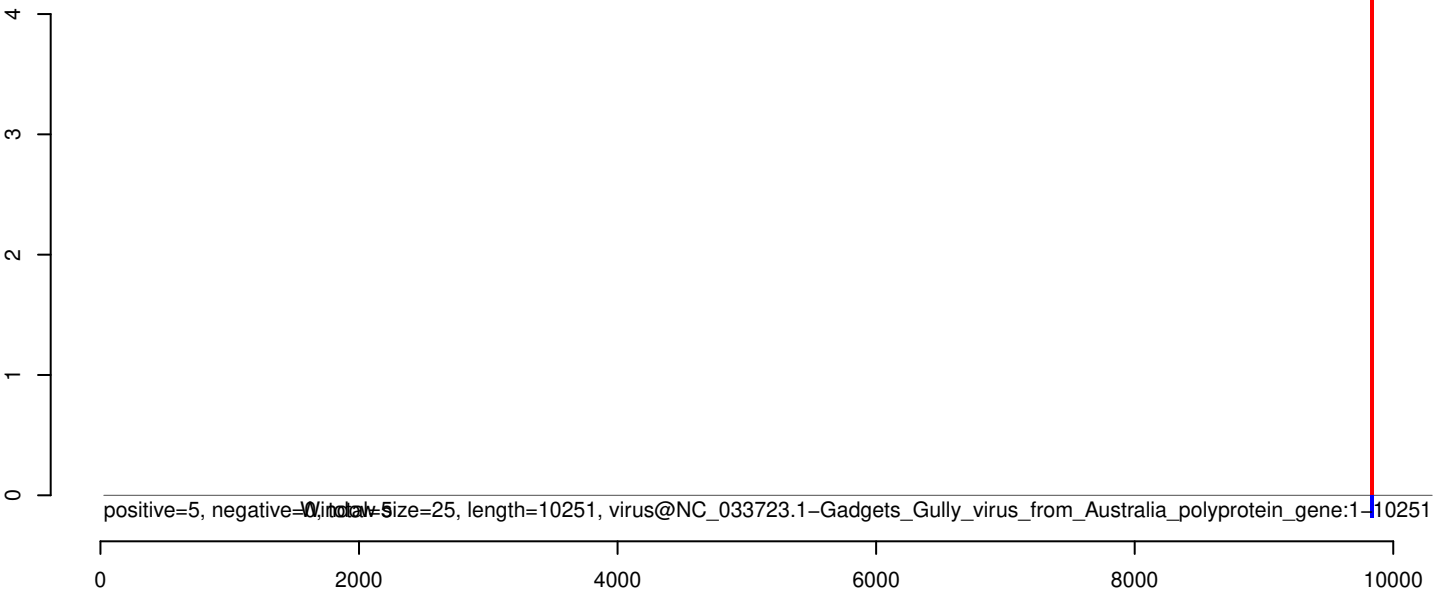
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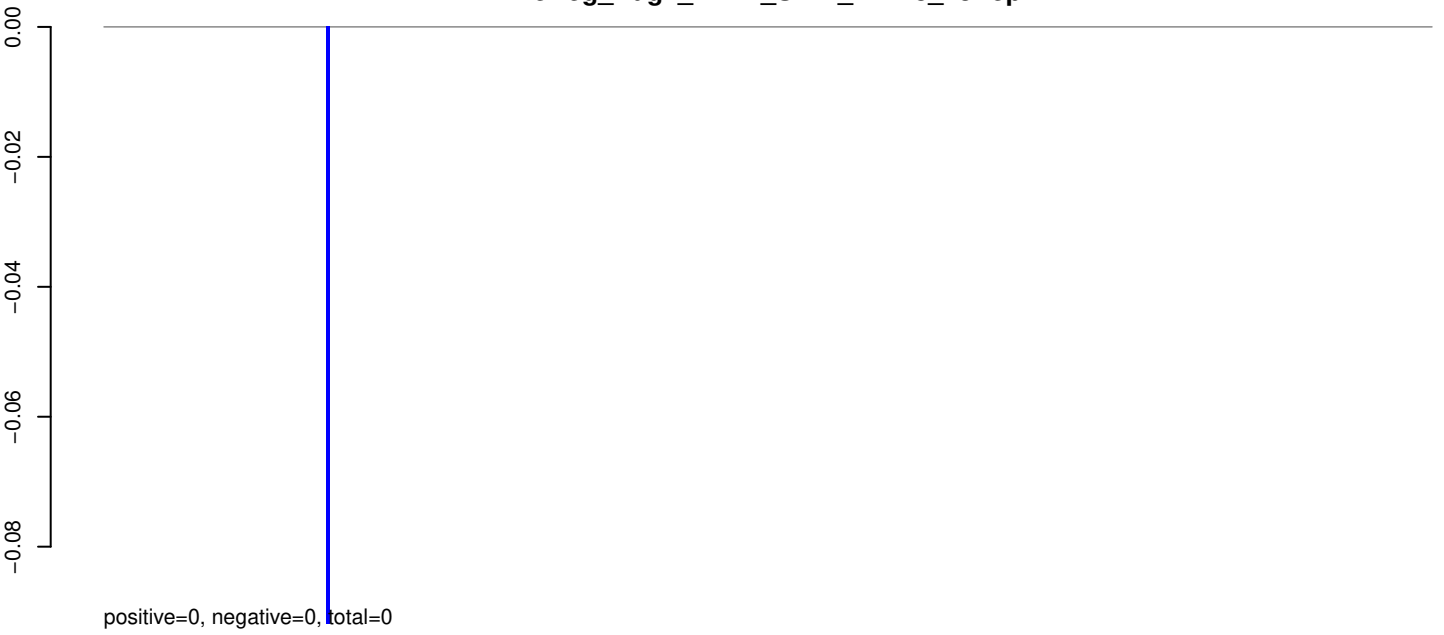
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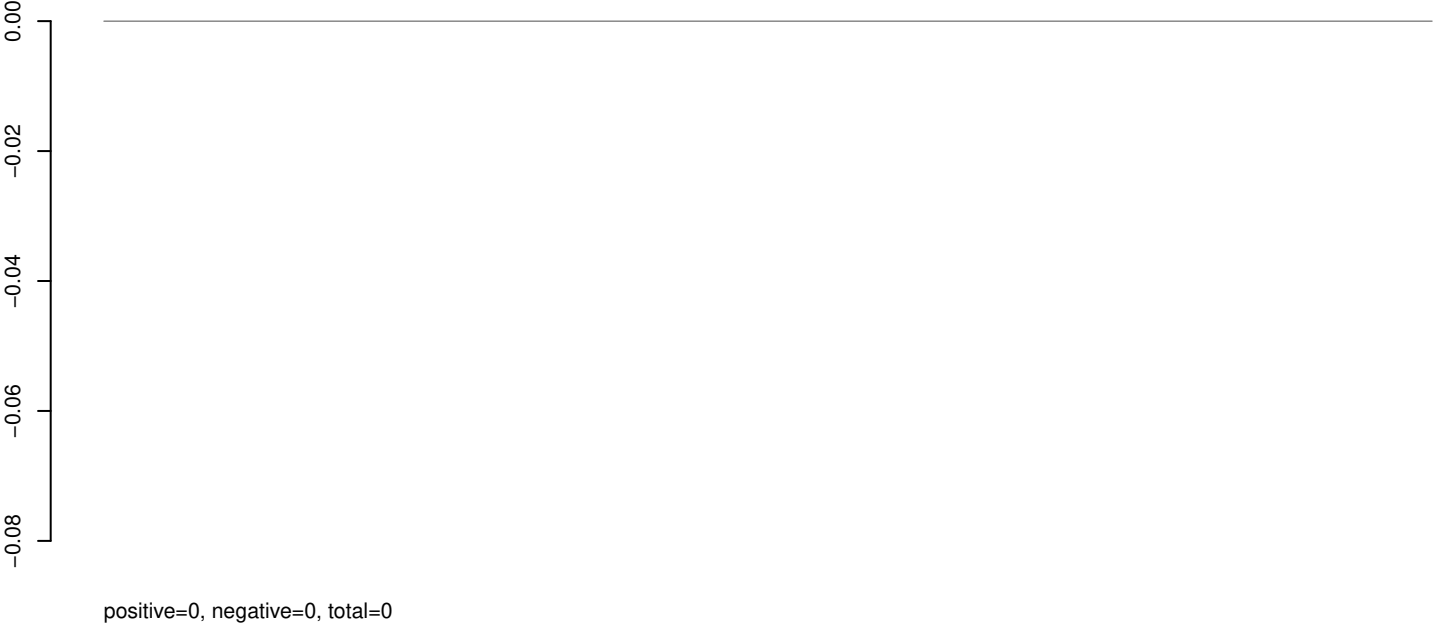
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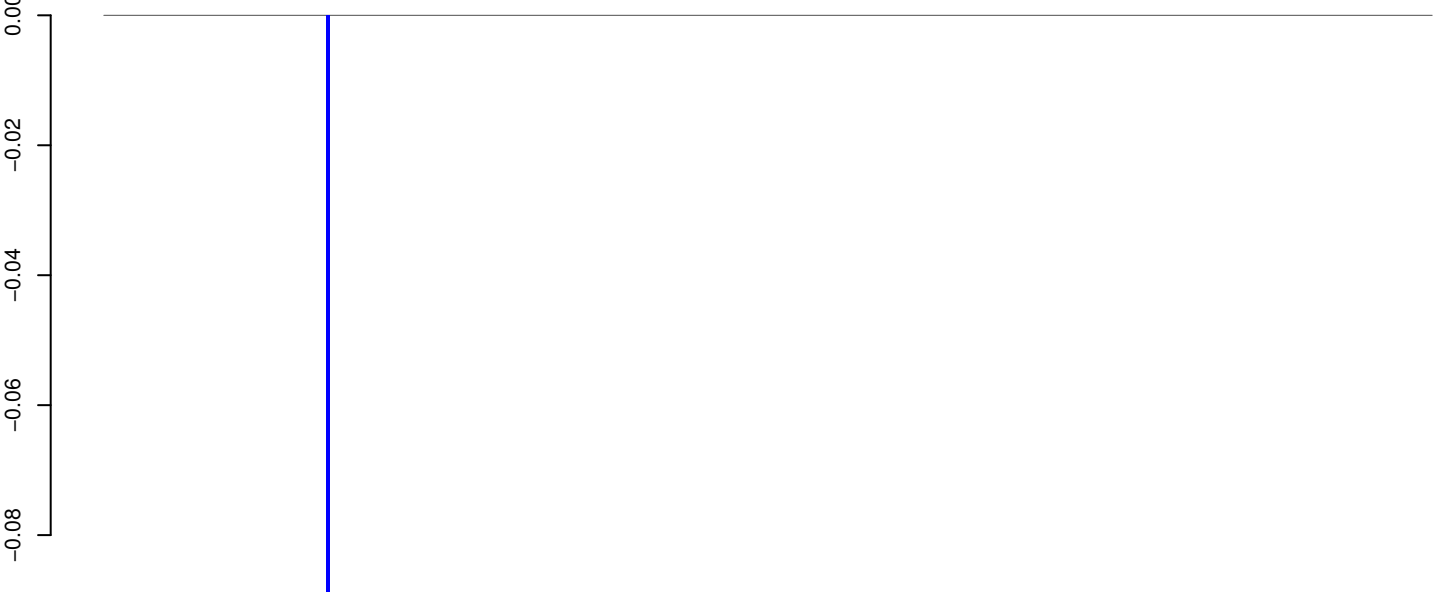
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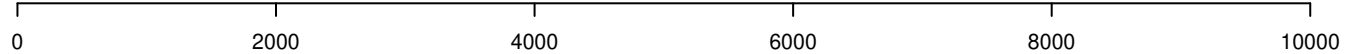
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

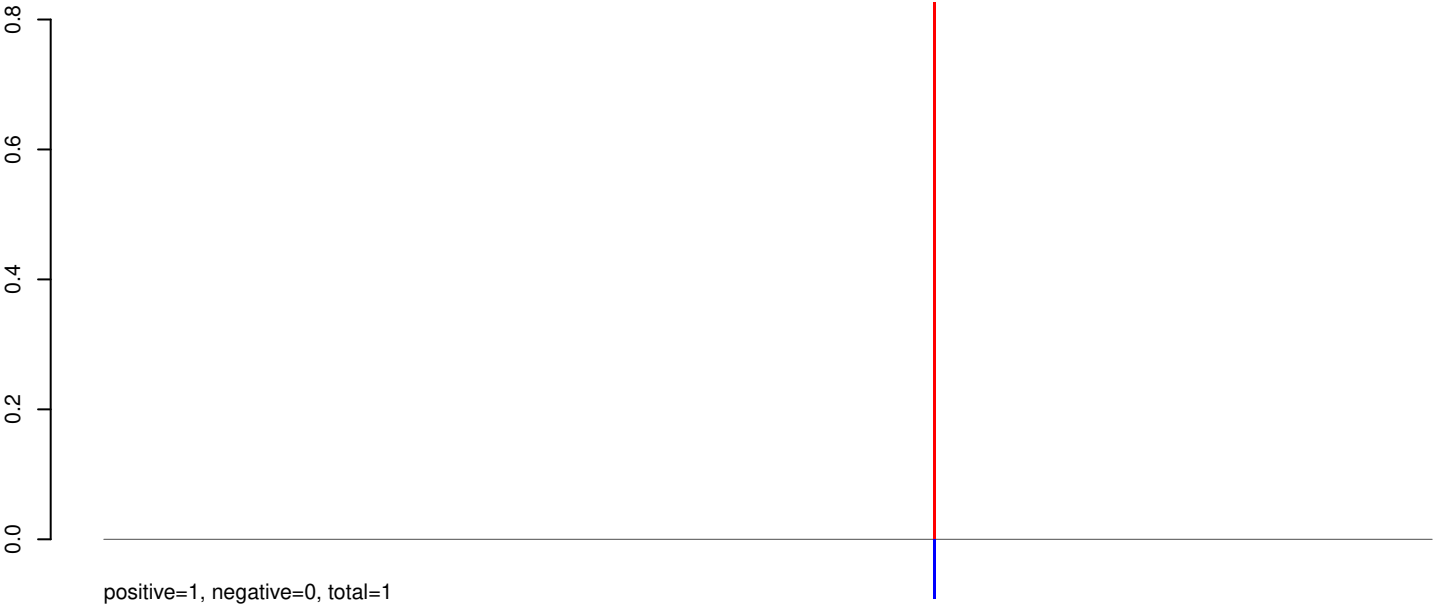


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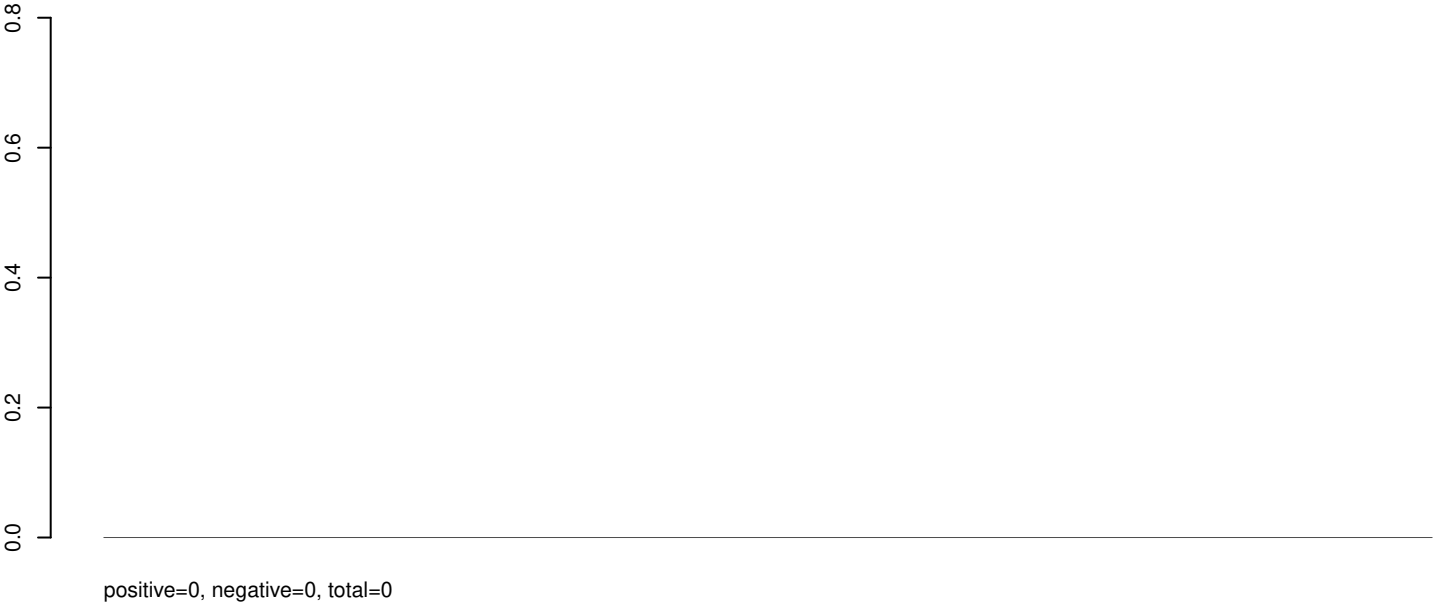




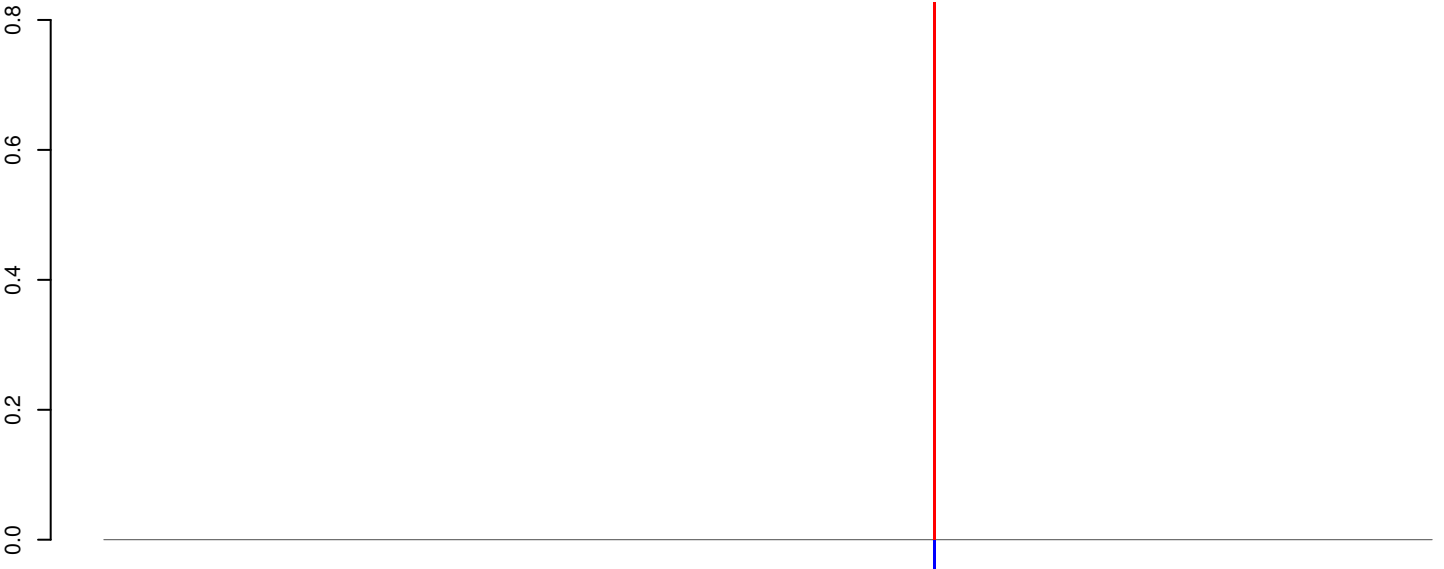
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



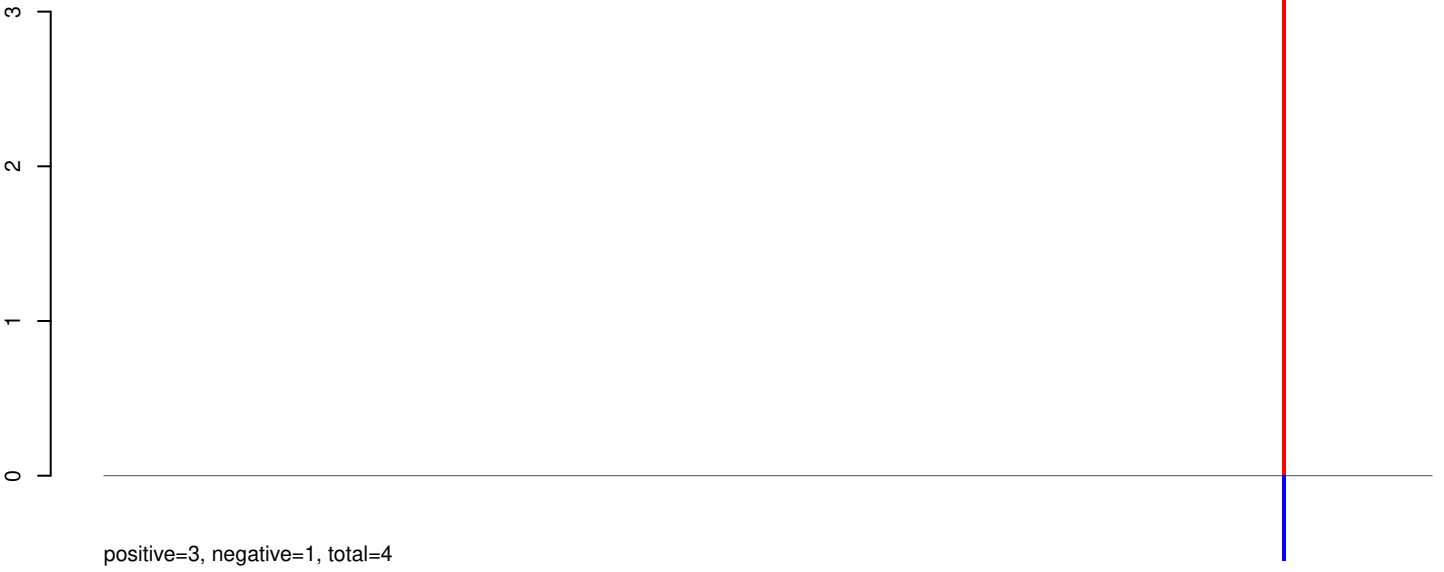
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



length=12774, coverage=0.0302, total=Xincheng\_Mosquito\_Virus\_strain\_XC1-6\_ORF1\_ORF1\_ORF2\_ORF2\_glycoprotein\_G\_and\_RNA-de:1-12774

0 2000 4000 6000 8000 10000 12000

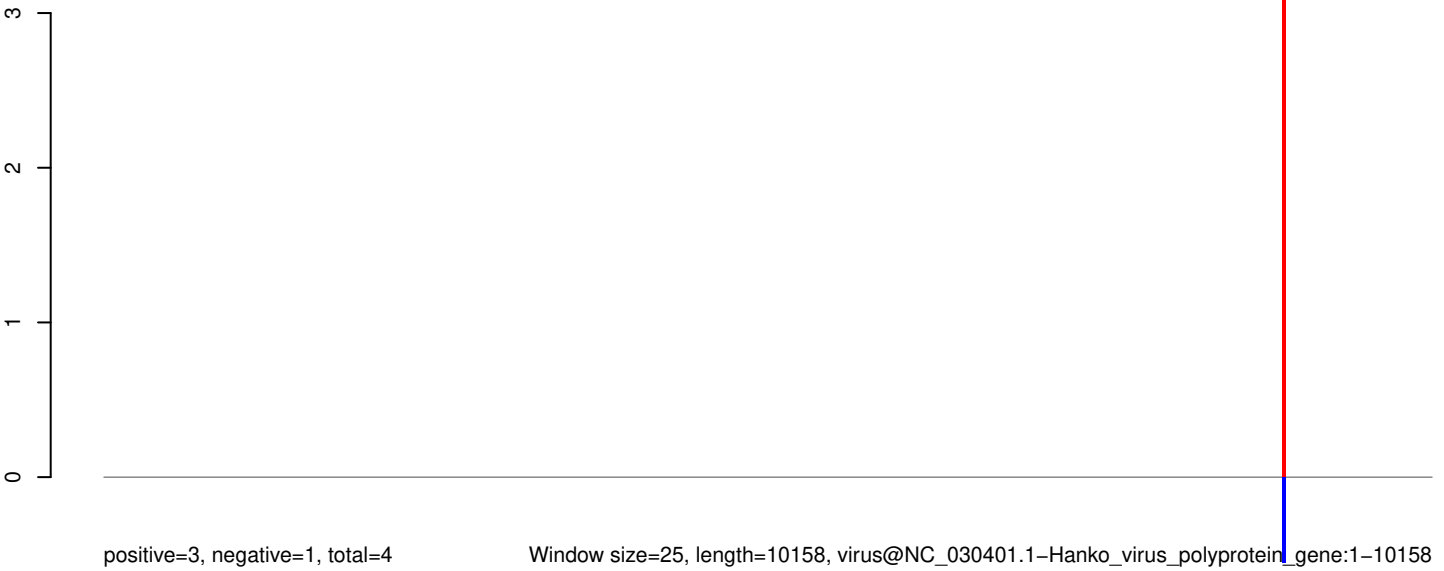
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



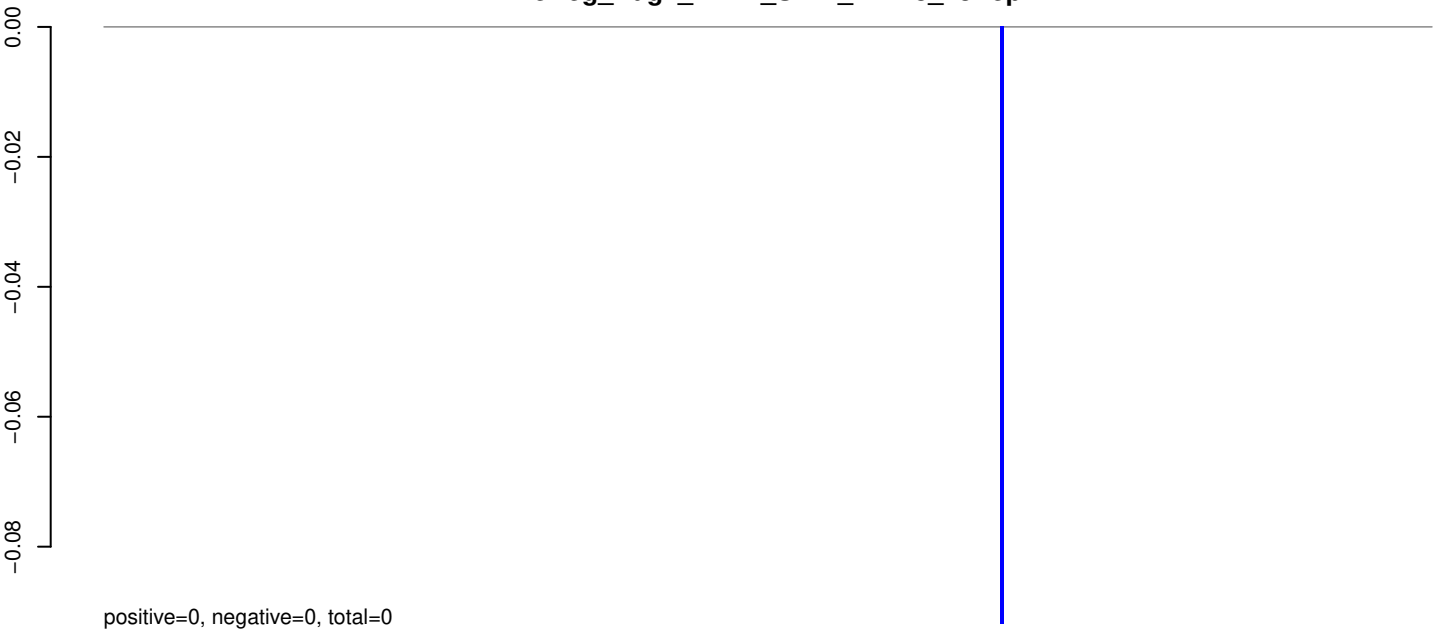
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



Window size=25, length=10158, virus@NC\_030401.1-Hanko\_virus\_polyprotein\_gene:1-10158

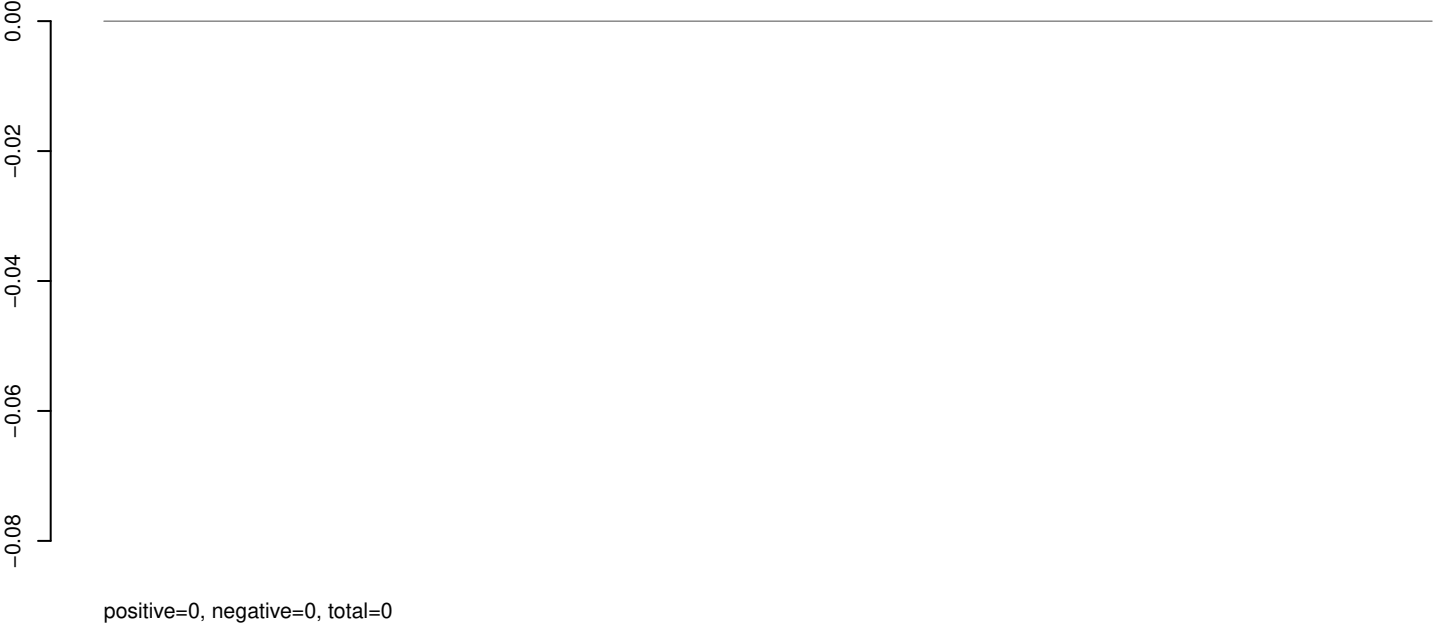
0 2000 4000 6000 8000 10000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



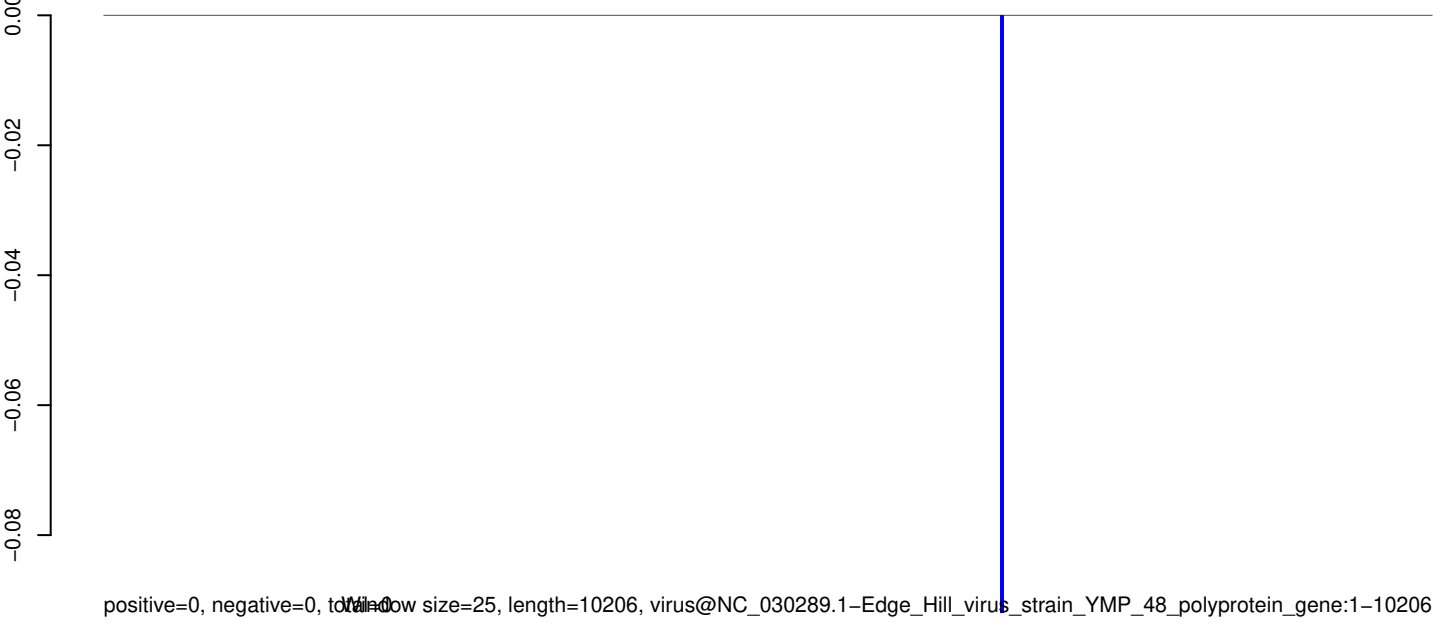
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



positive=0, negative=0, total=0

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

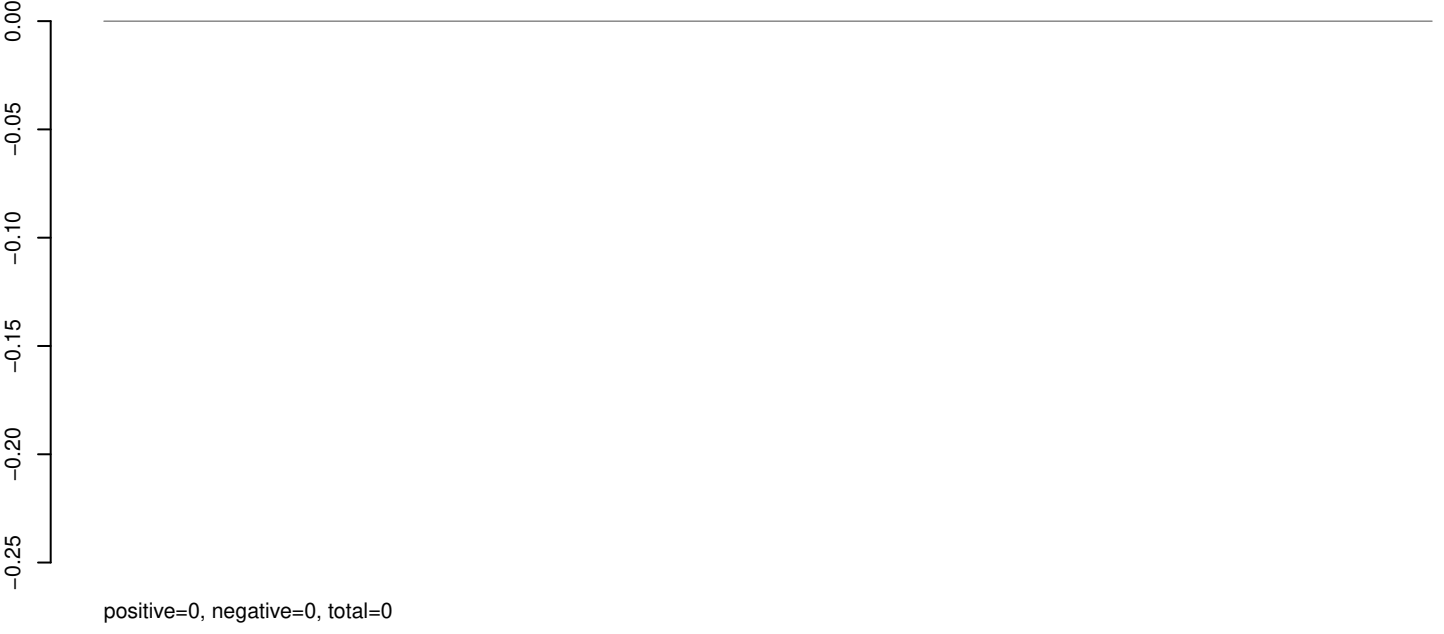


positive=0, negative=0, total=0 window size=25, length=10206, virus@NC\_030289.1-Edge\_Hill\_virus\_strain\_YMP\_48\_polyprotein\_gene:1-10206

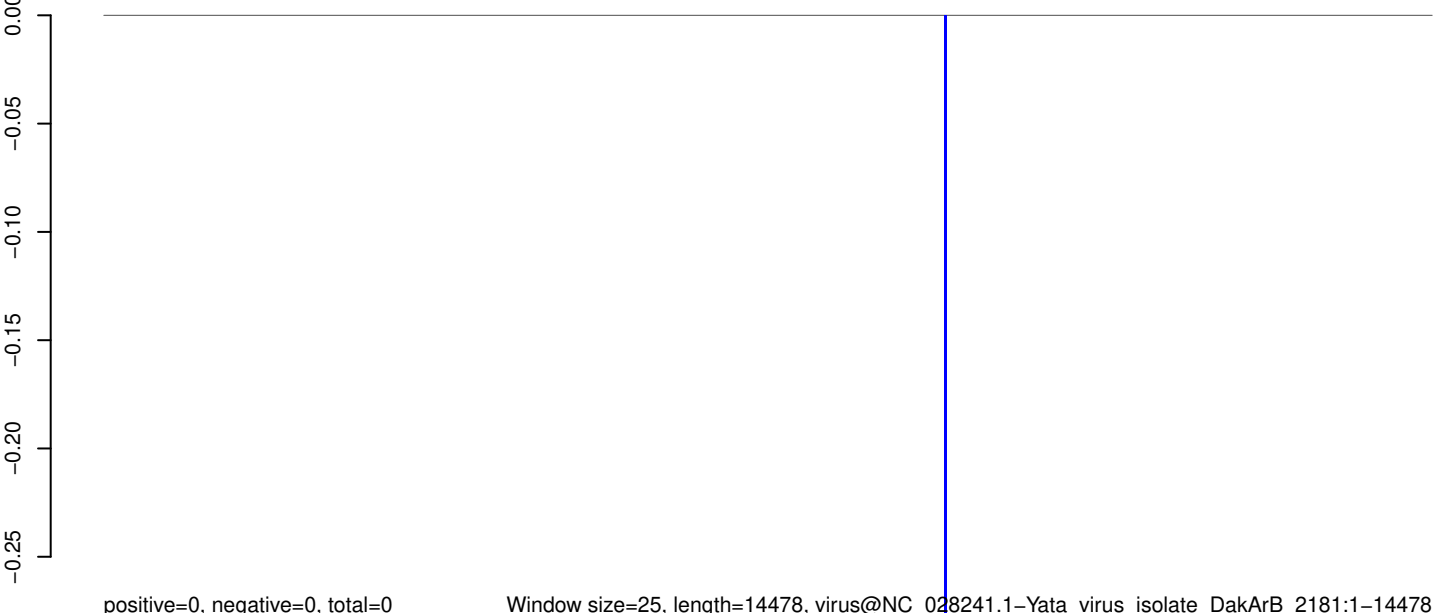
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



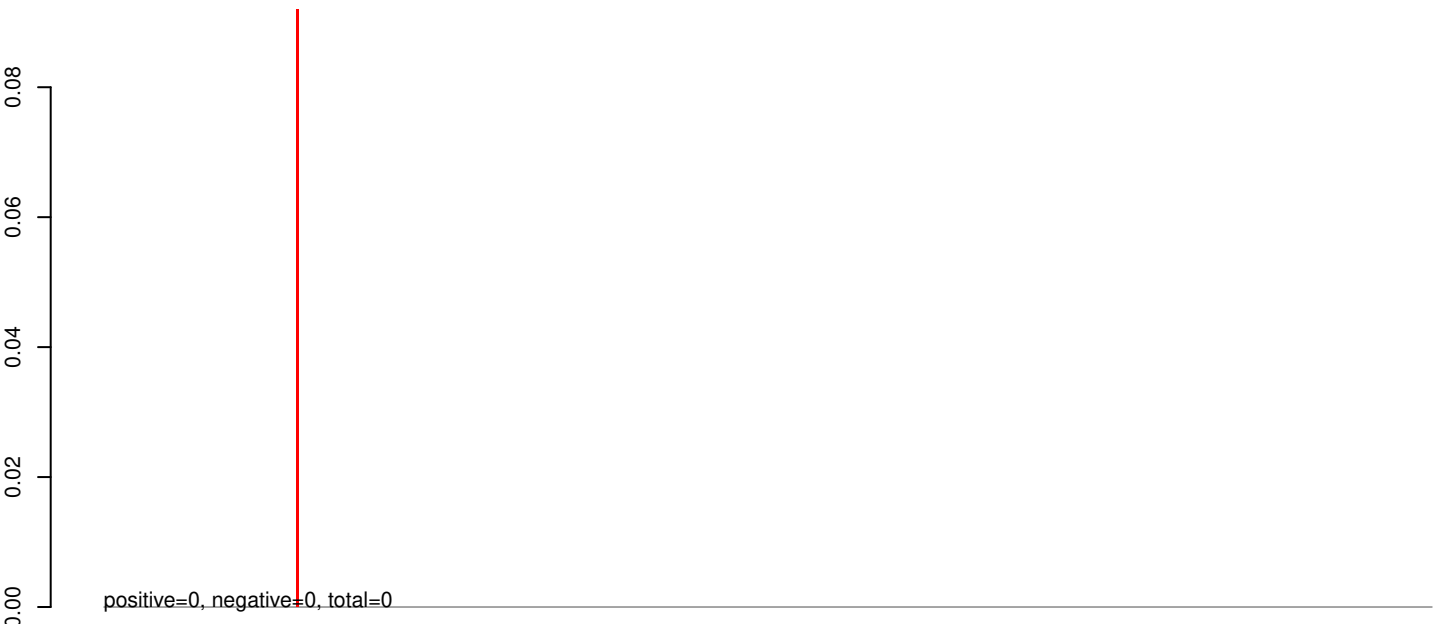
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



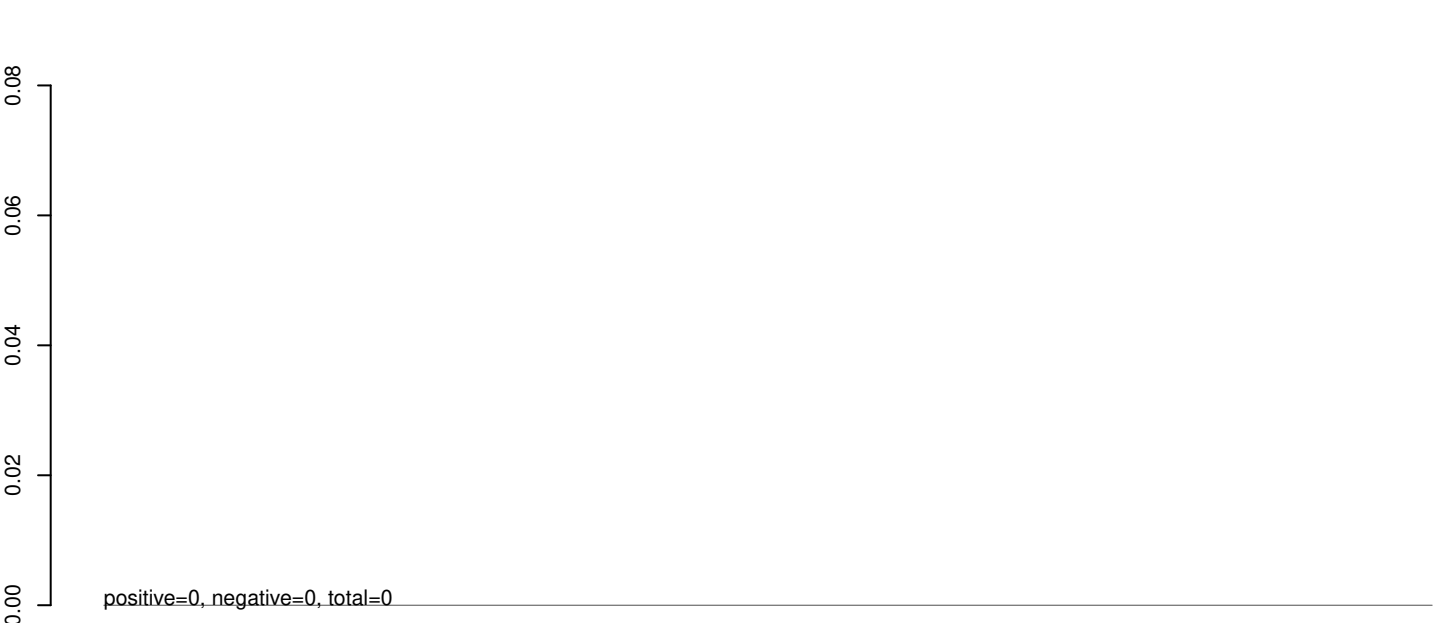
Window size=25, length=14478, virus@NC\_028241.1-Yata\_virus\_isolate\_DakArB\_2181:1-14478

0 5000 10000 15000

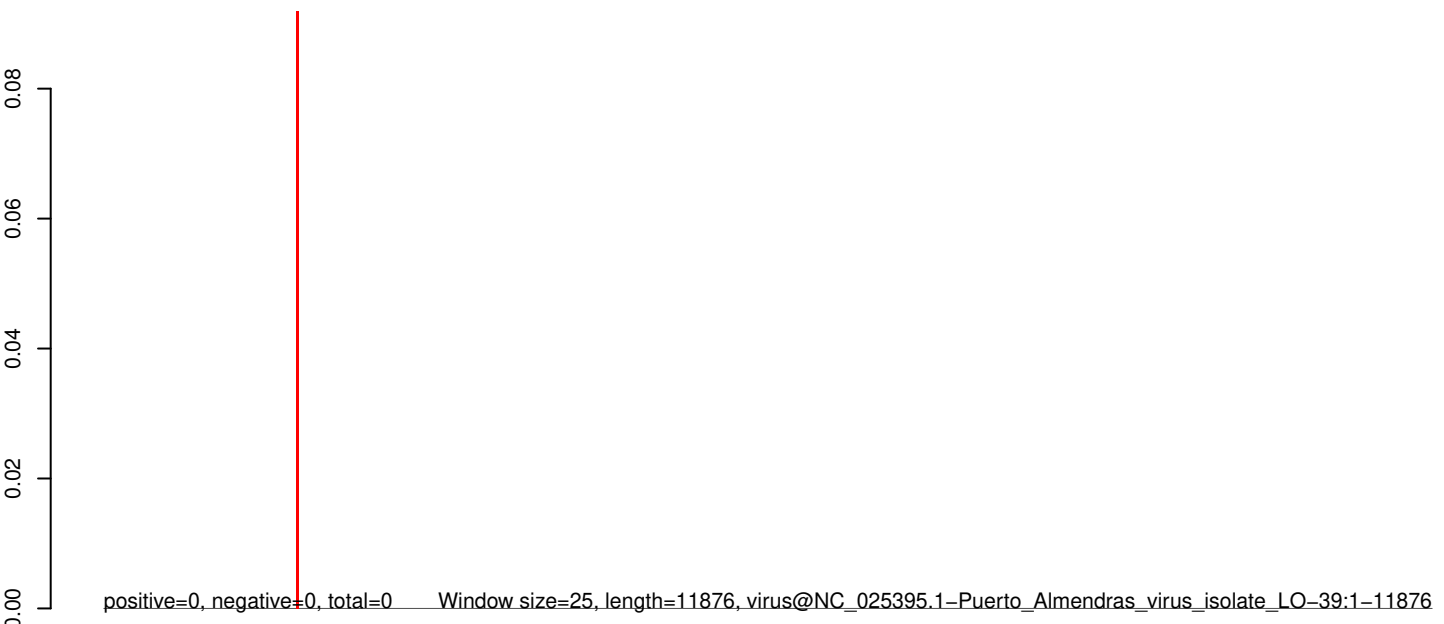
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



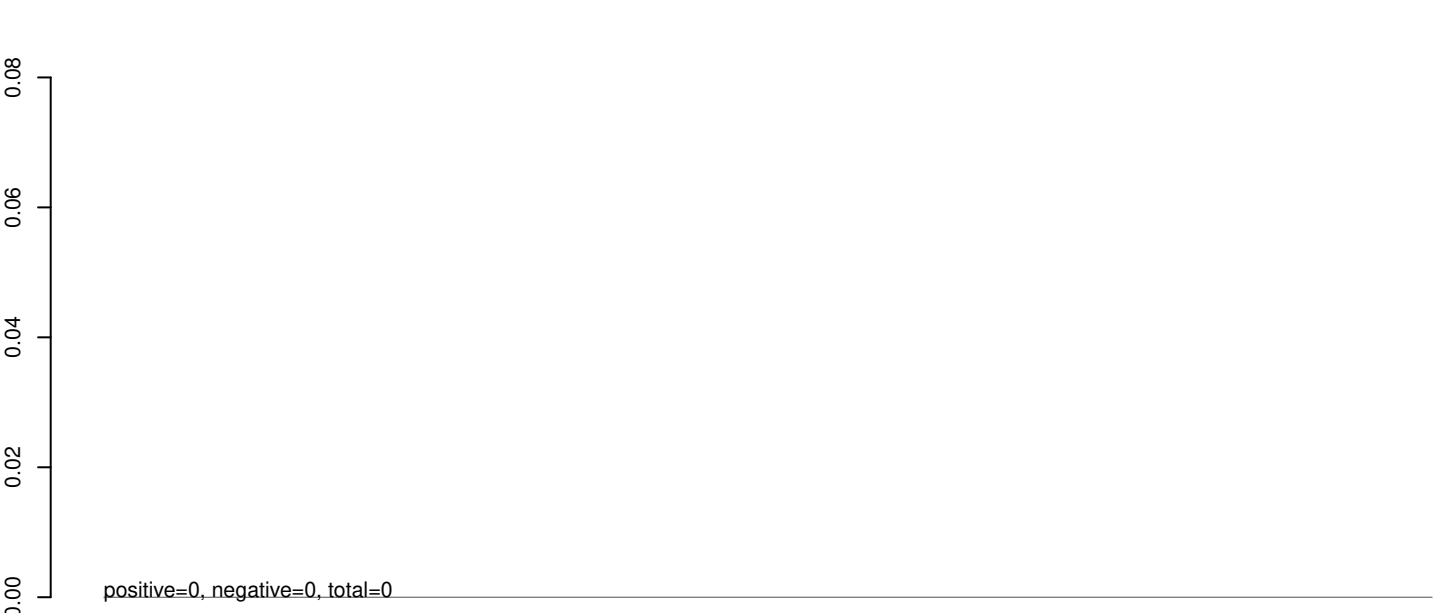
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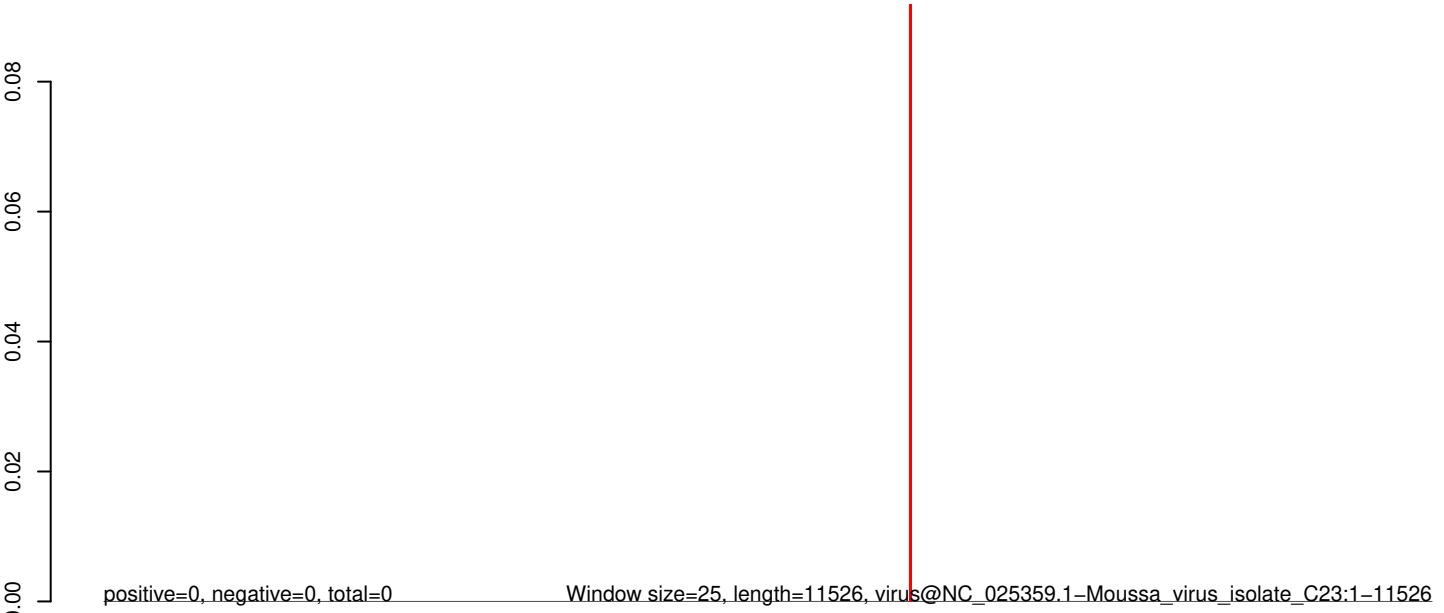
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

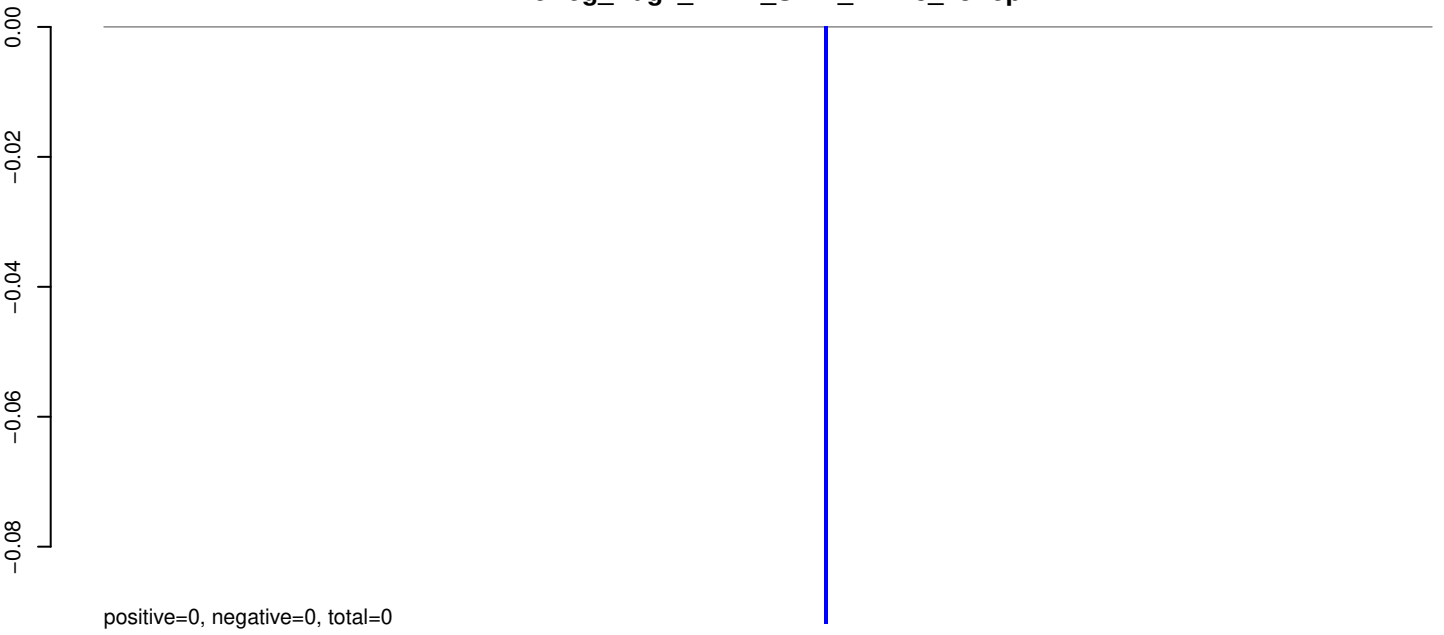


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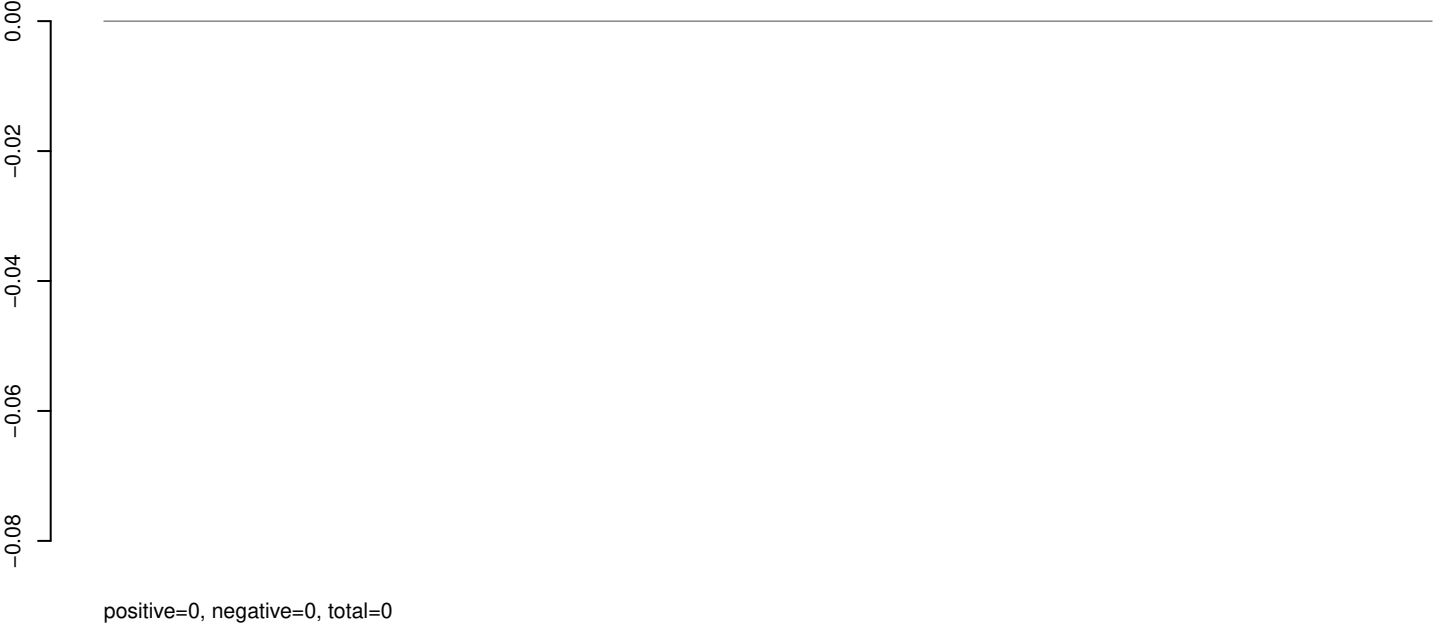


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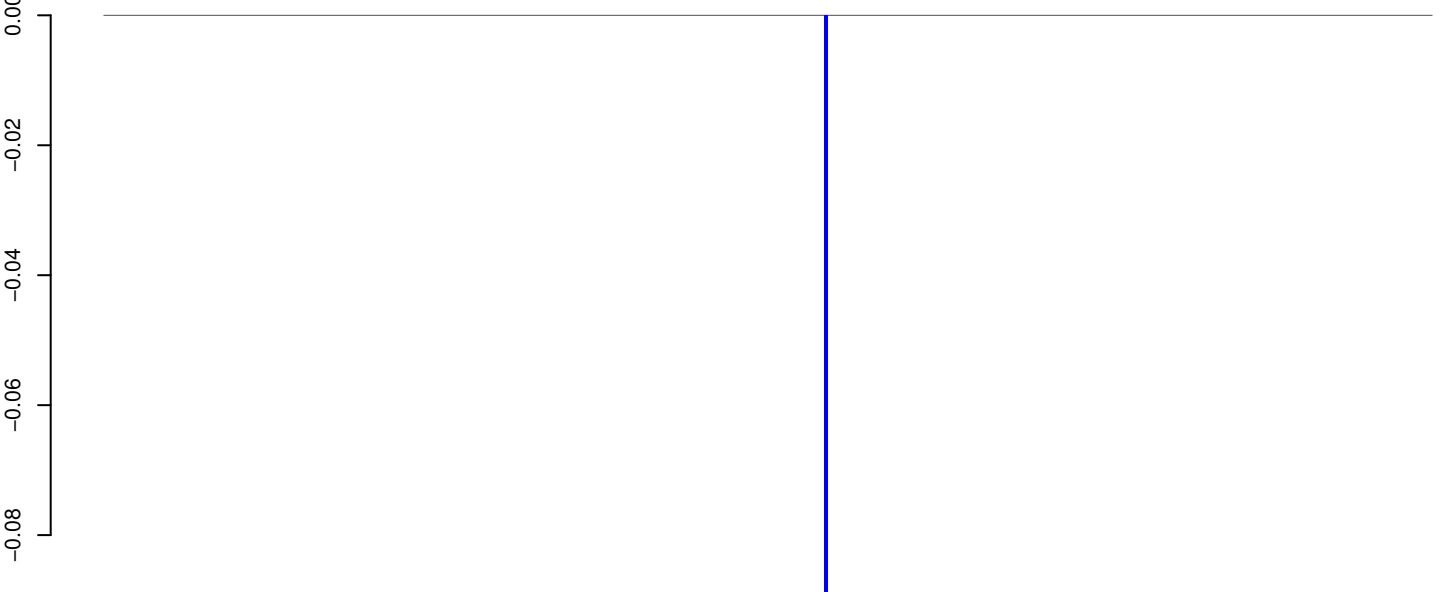
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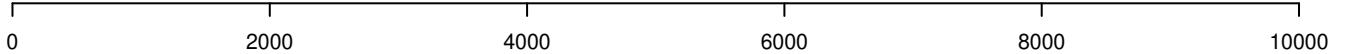
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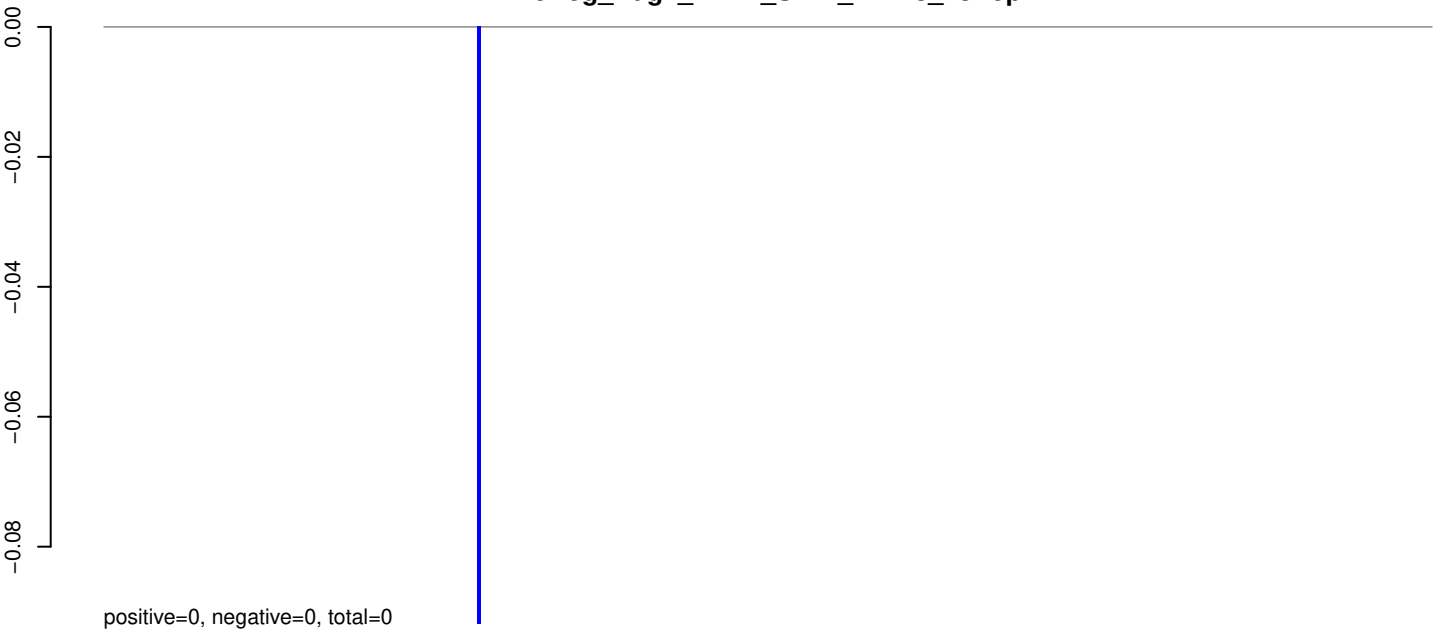
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



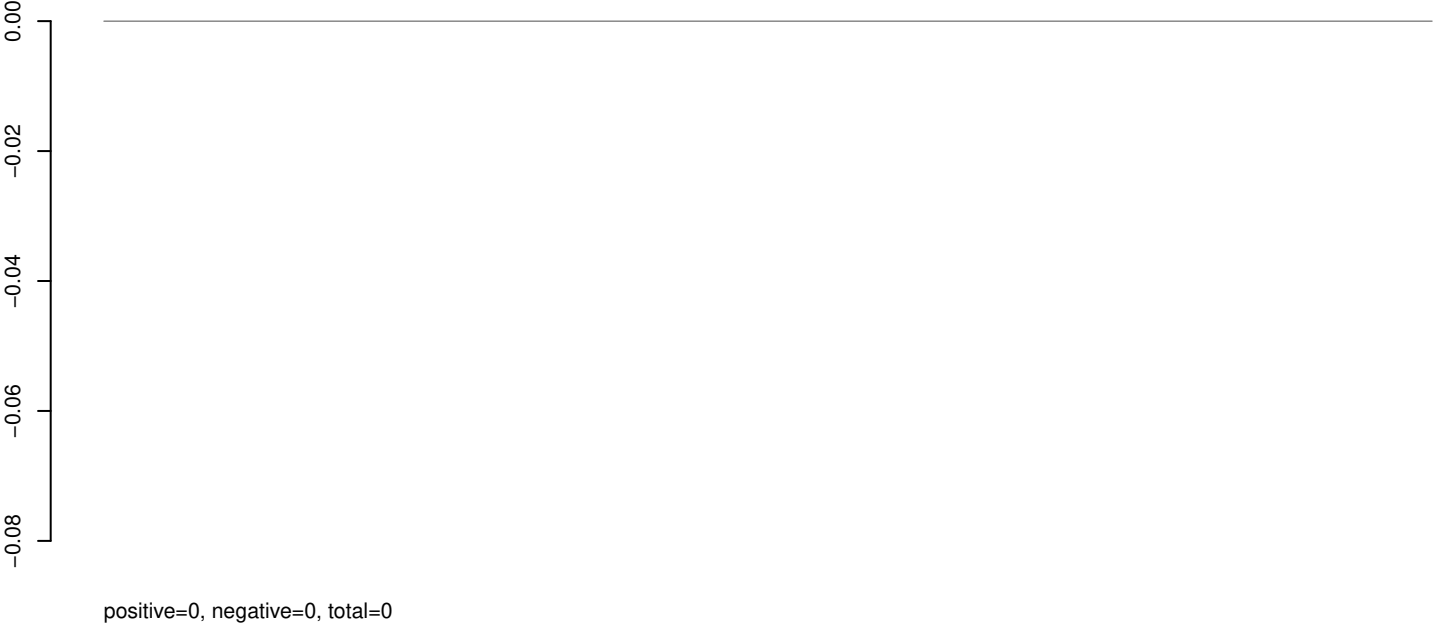
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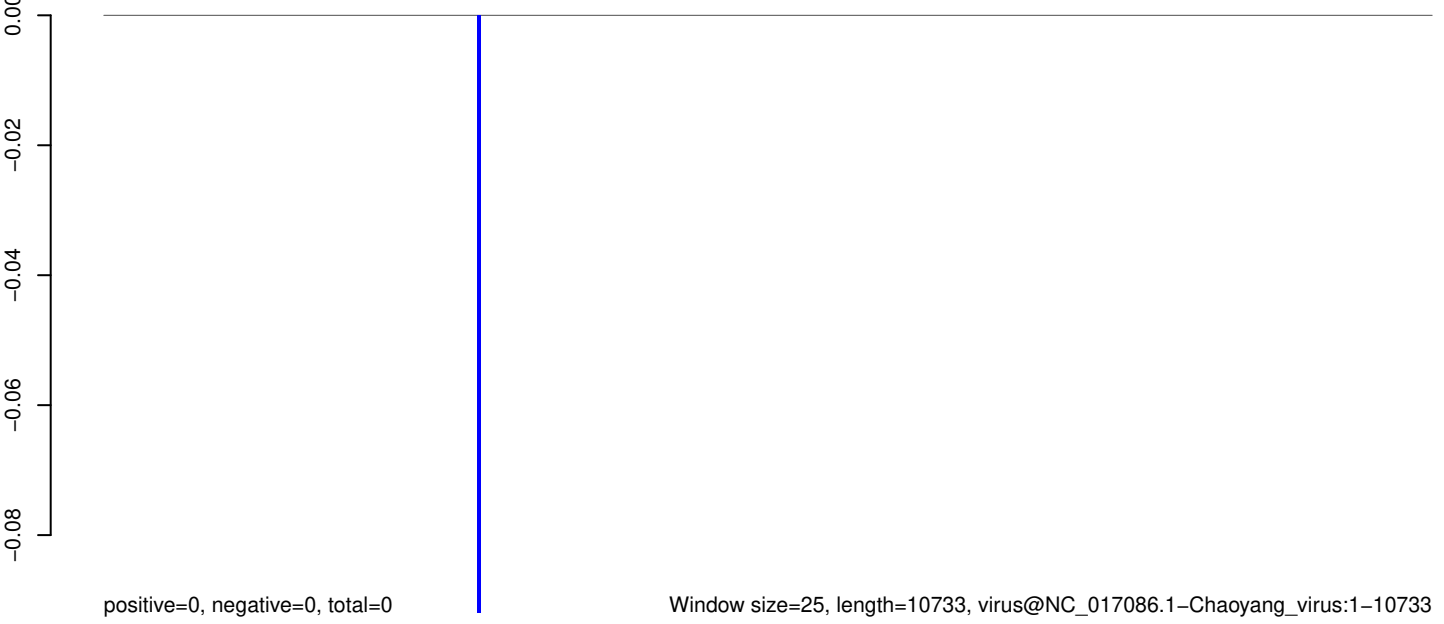
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

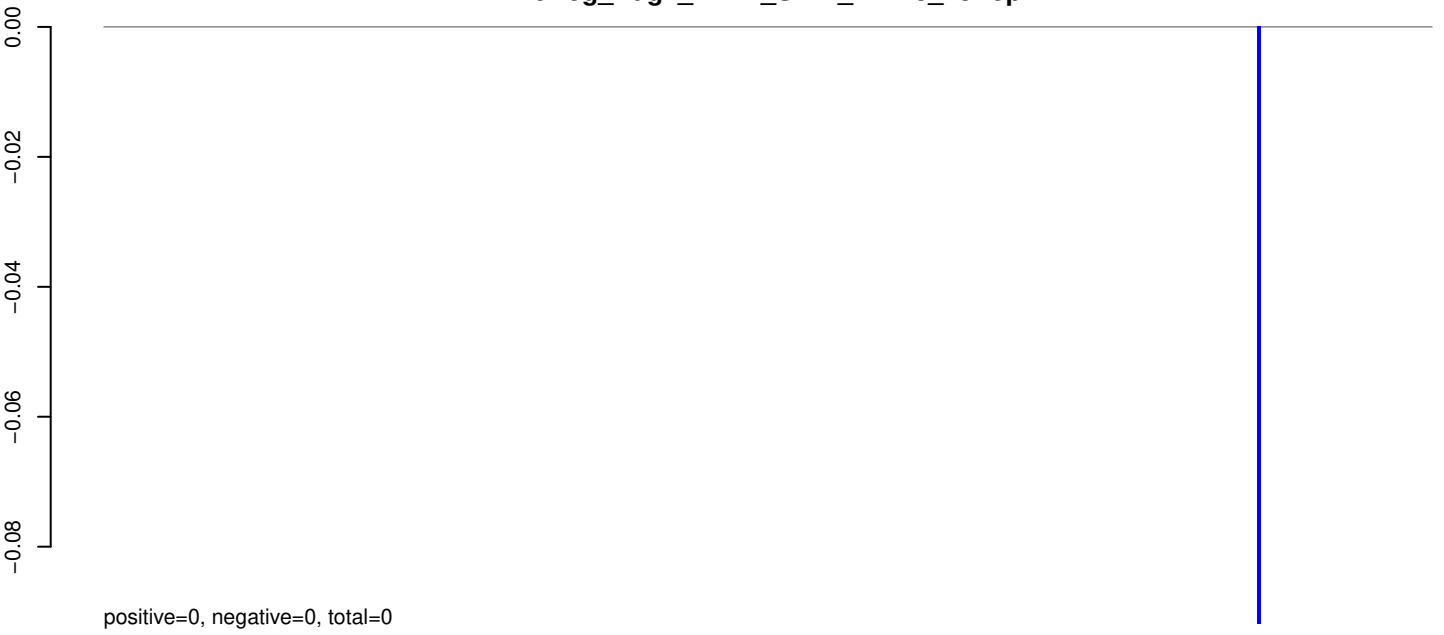


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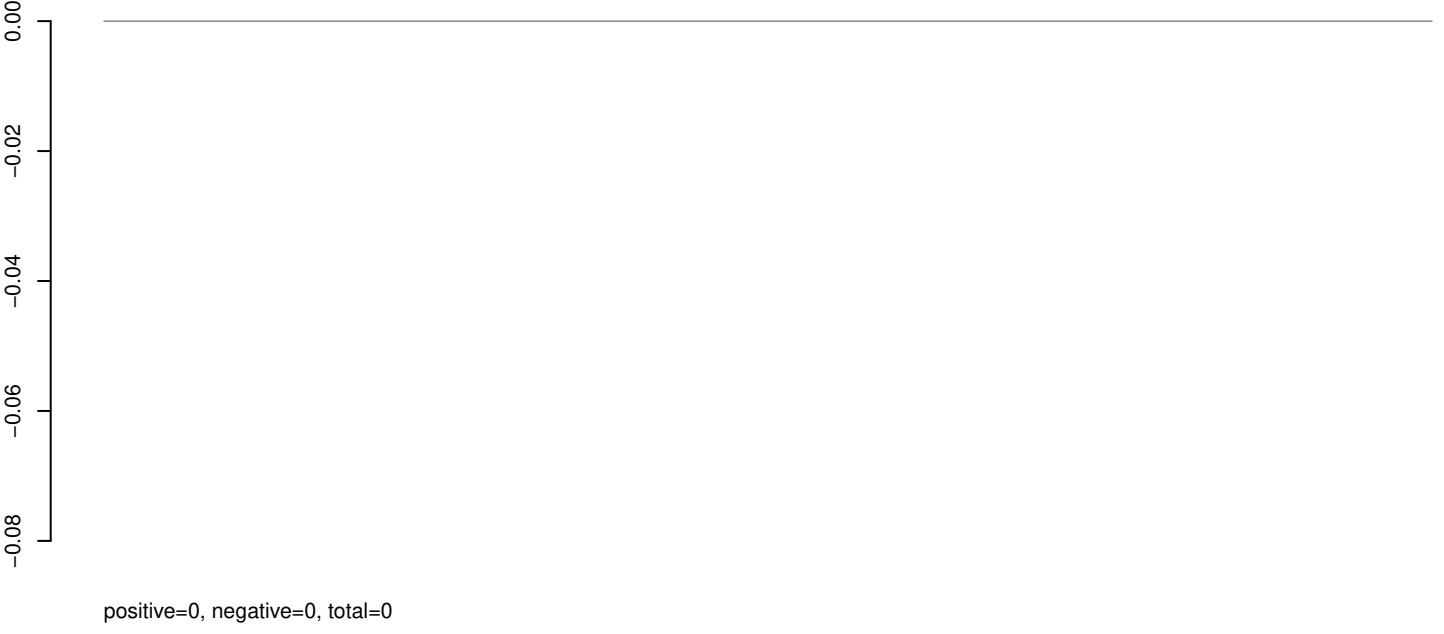




**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



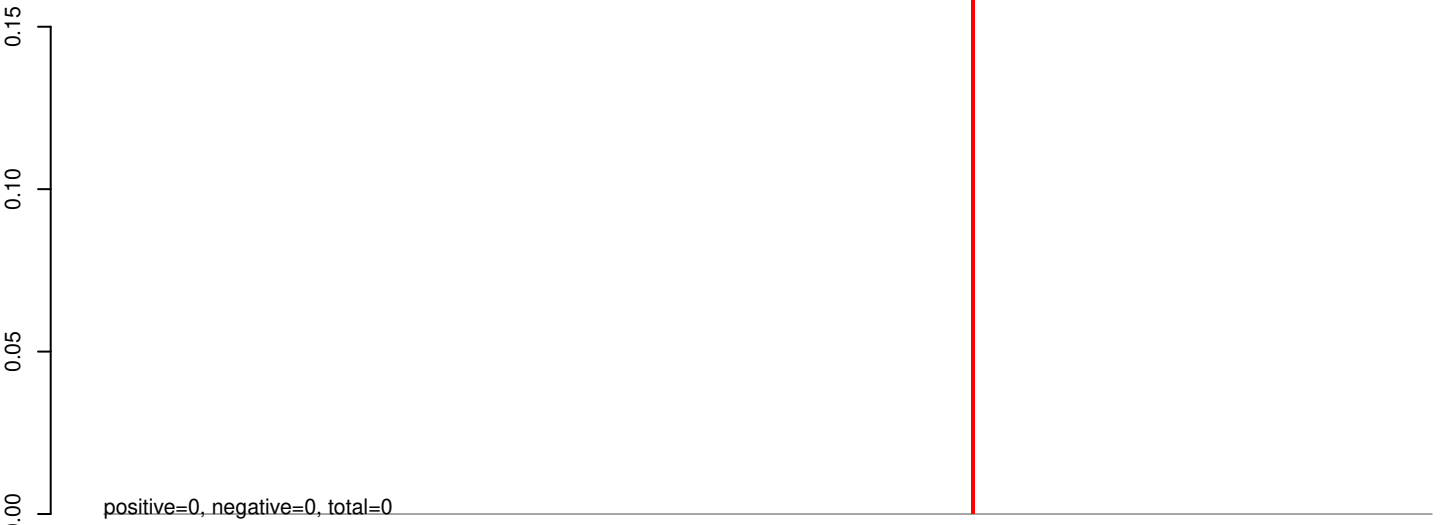
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



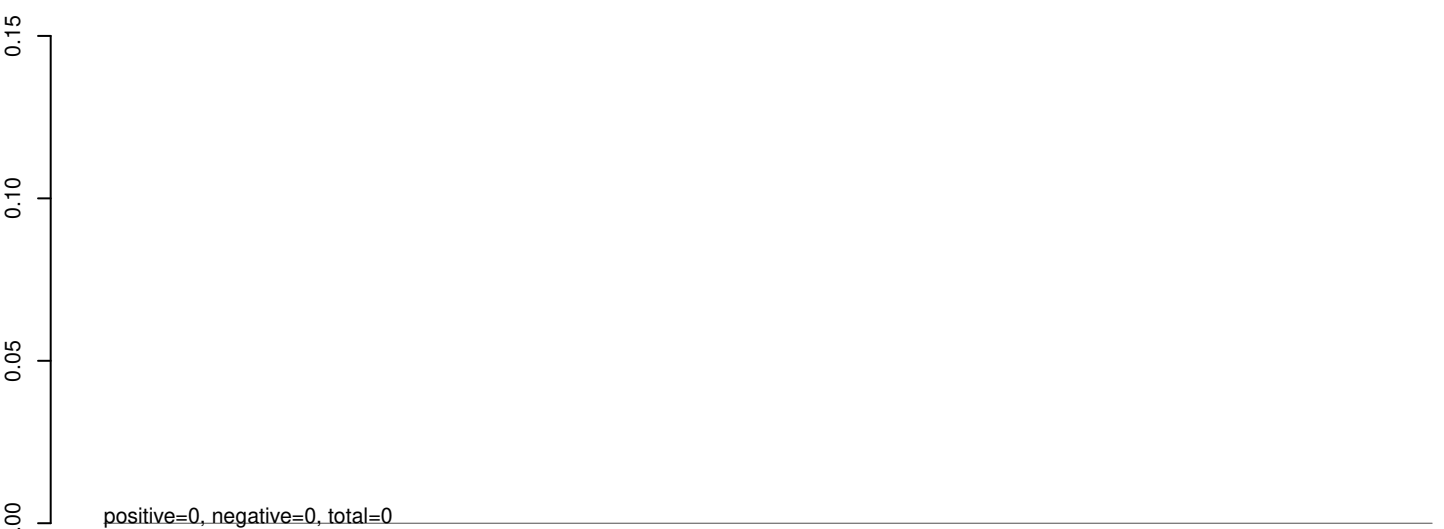
Window size=25, length=10814, virus@NC\_012735.1-Wesselsbron\_virus:1-10814

0 2000 4000 6000 8000 10000

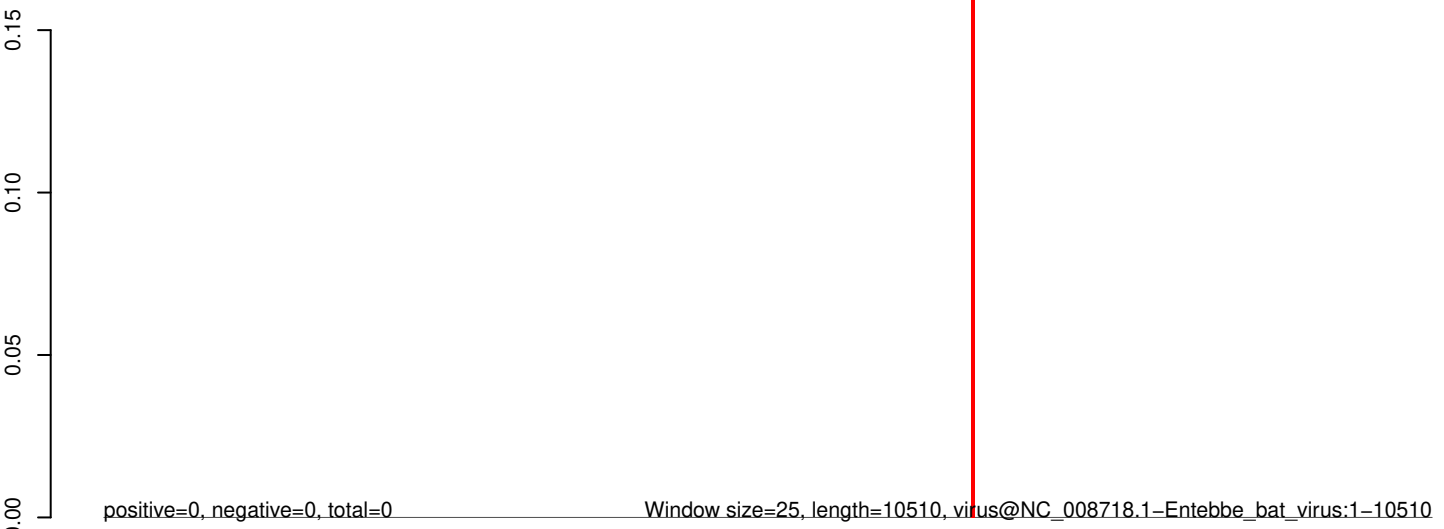
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

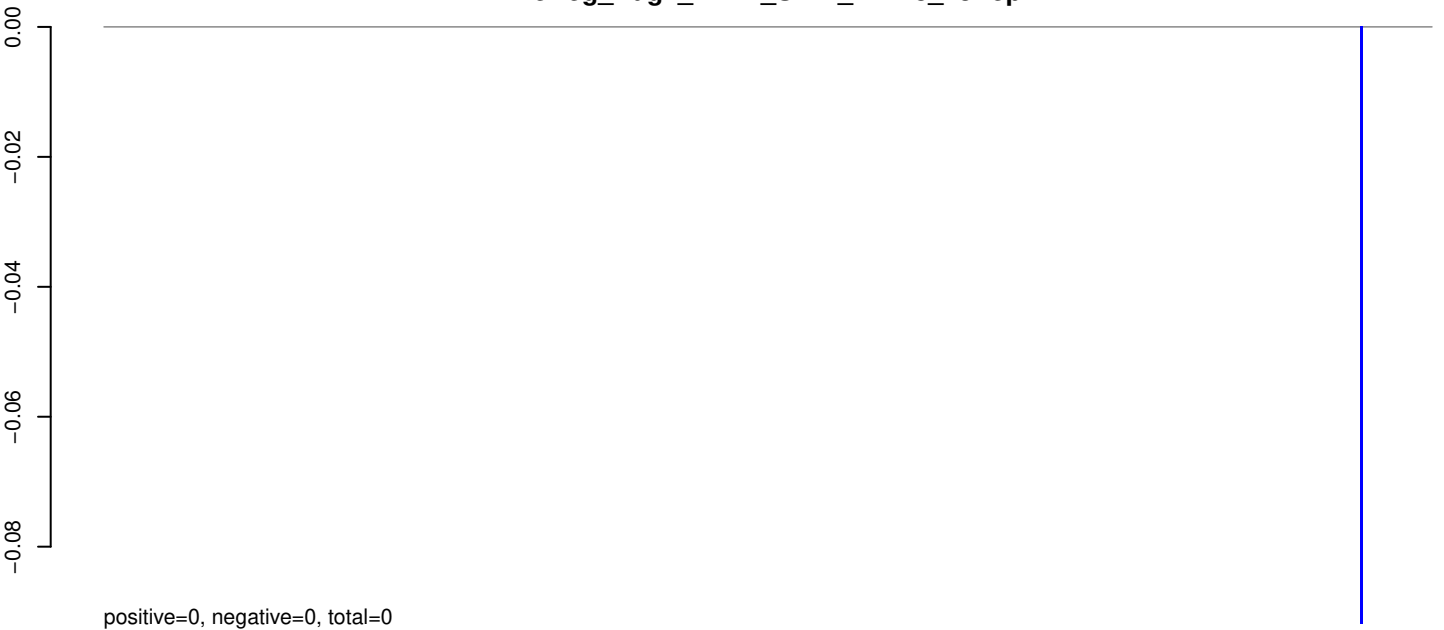


**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



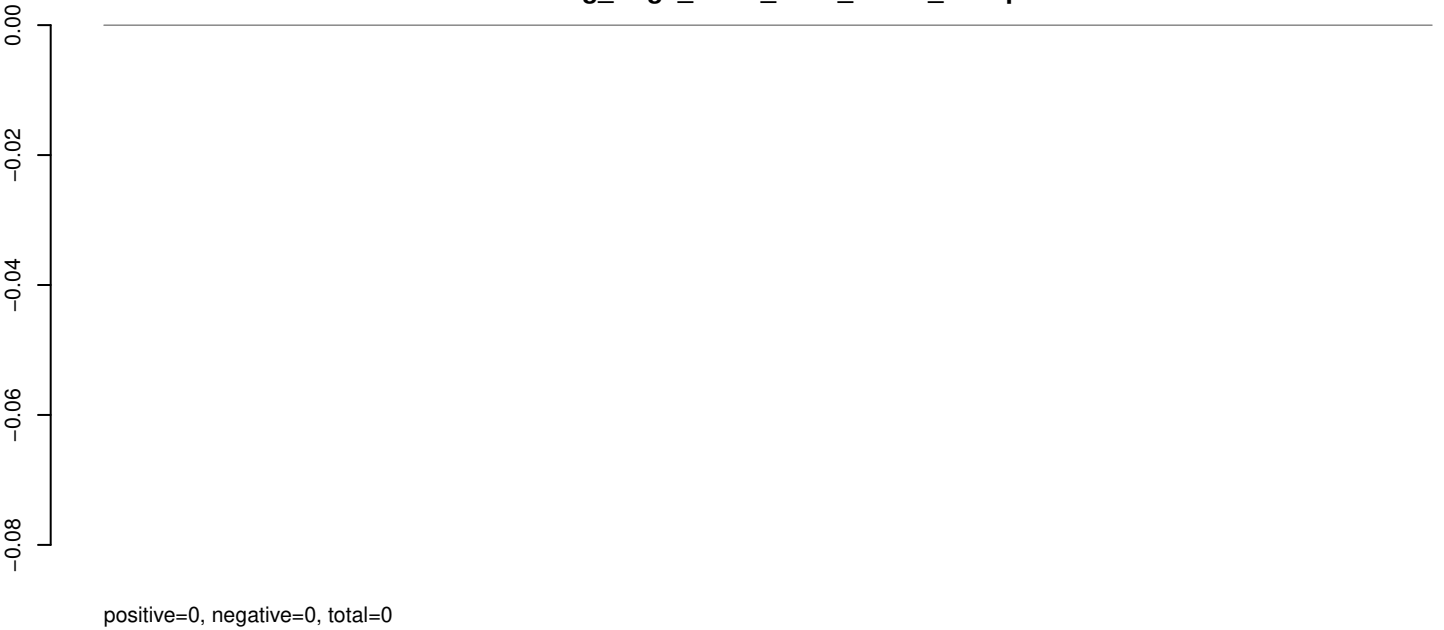
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



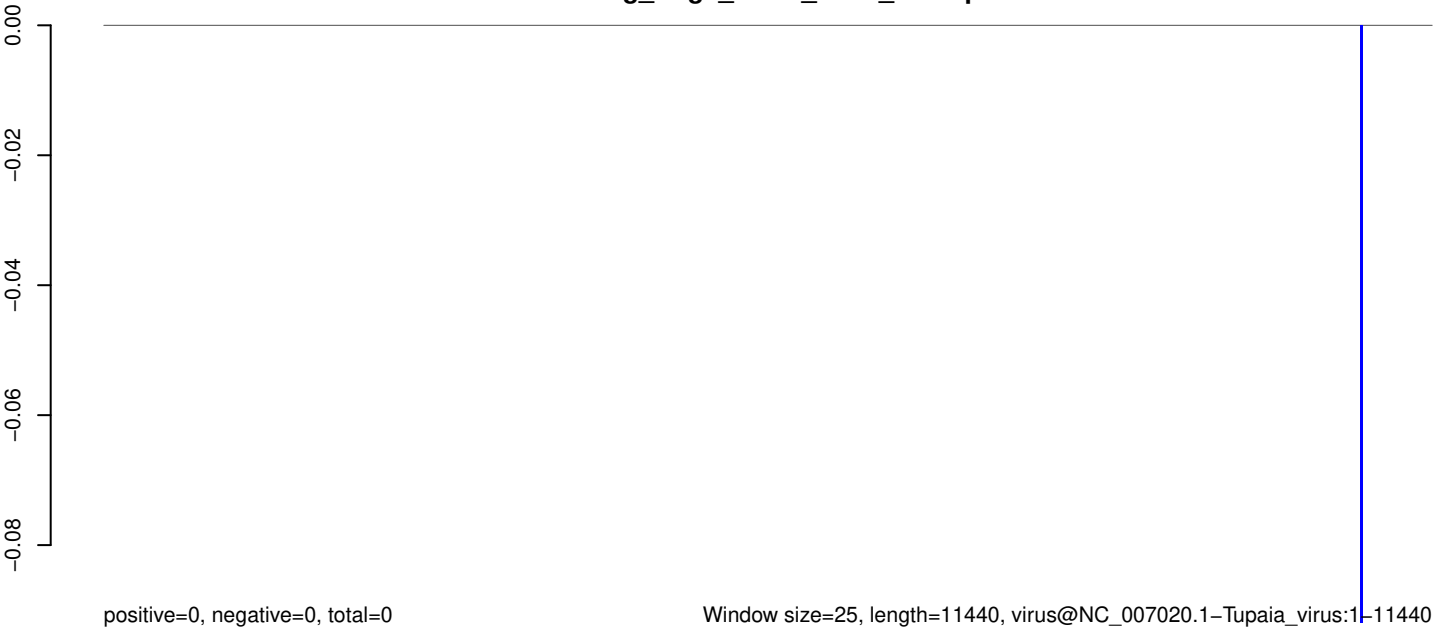
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



positive=0, negative=0, total=0

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

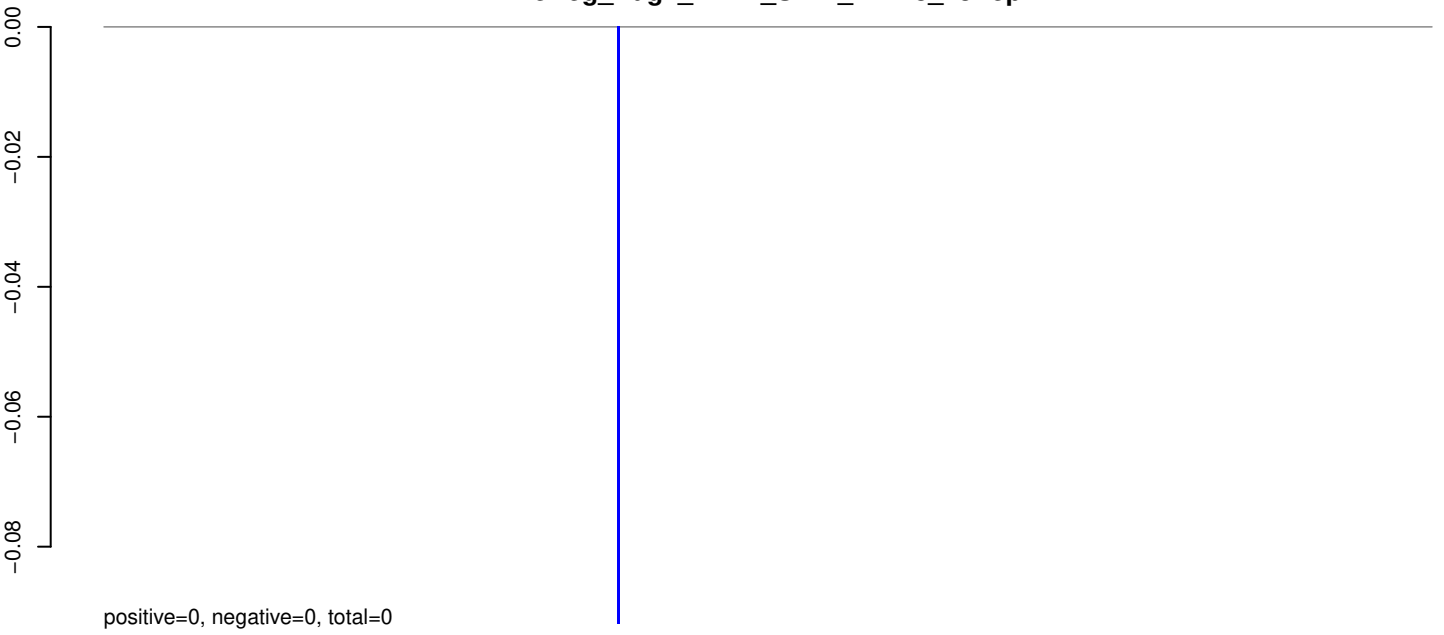


positive=0, negative=0, total=0

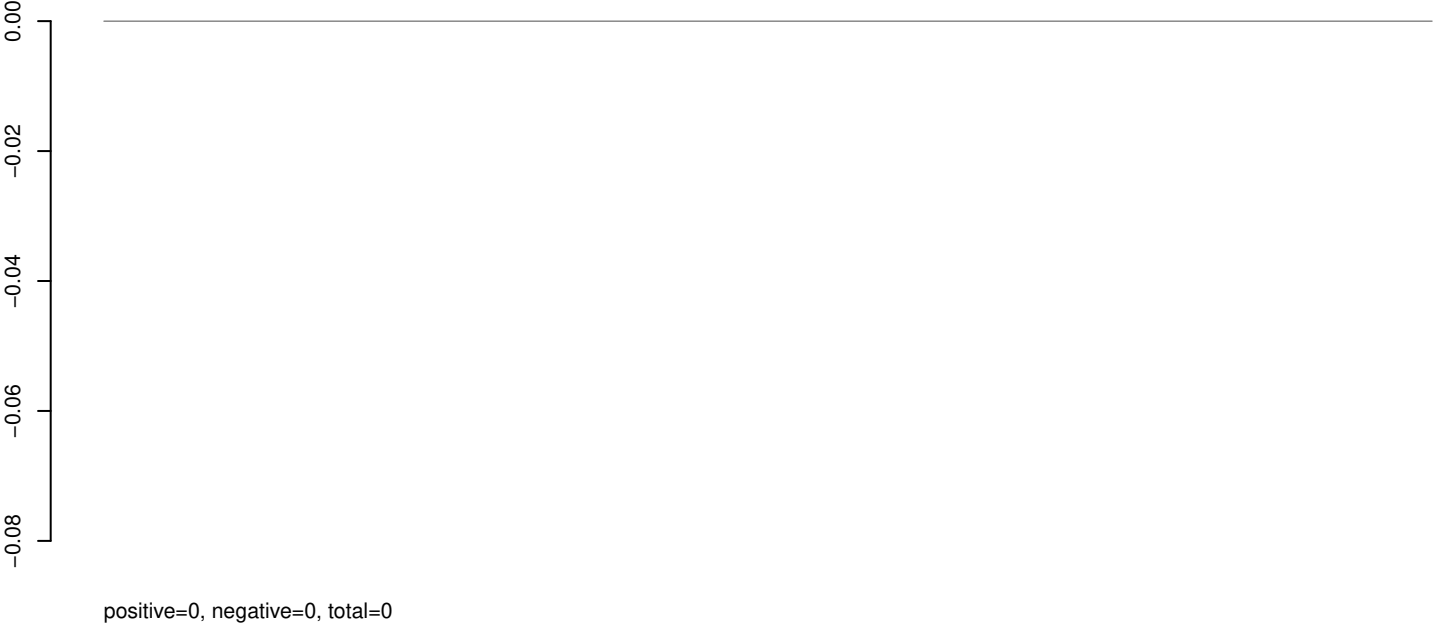
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0 2000 4000 6000 8000 10000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



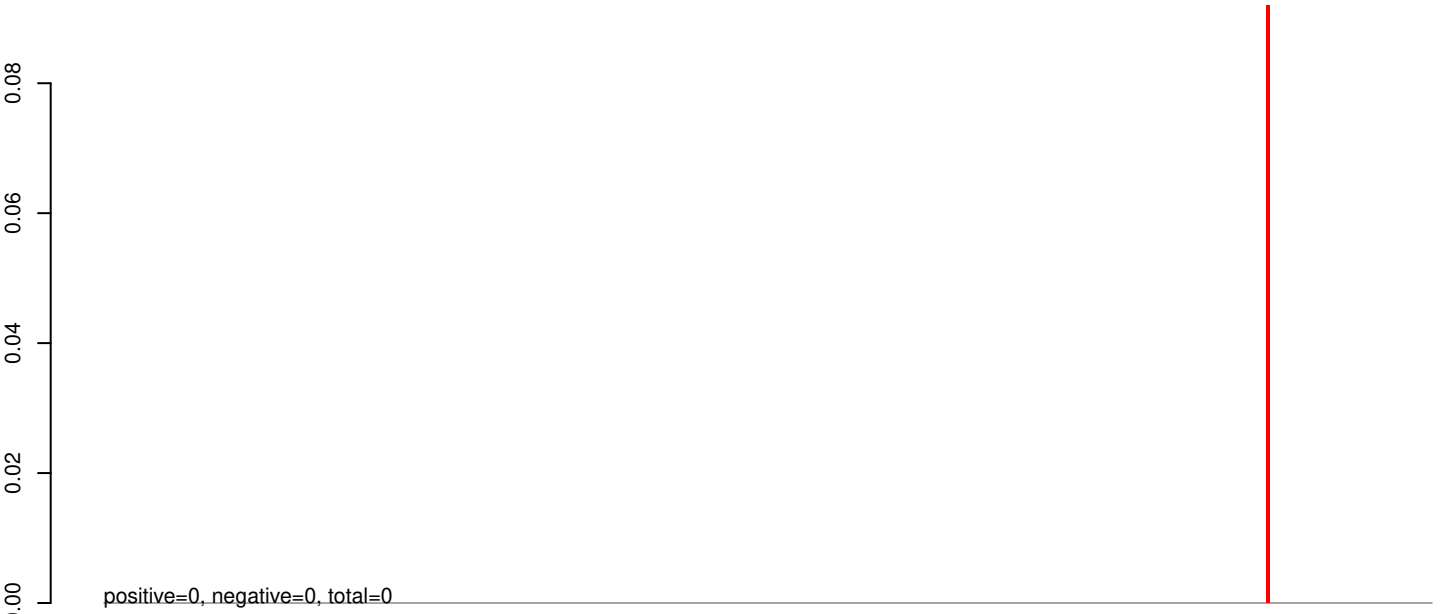
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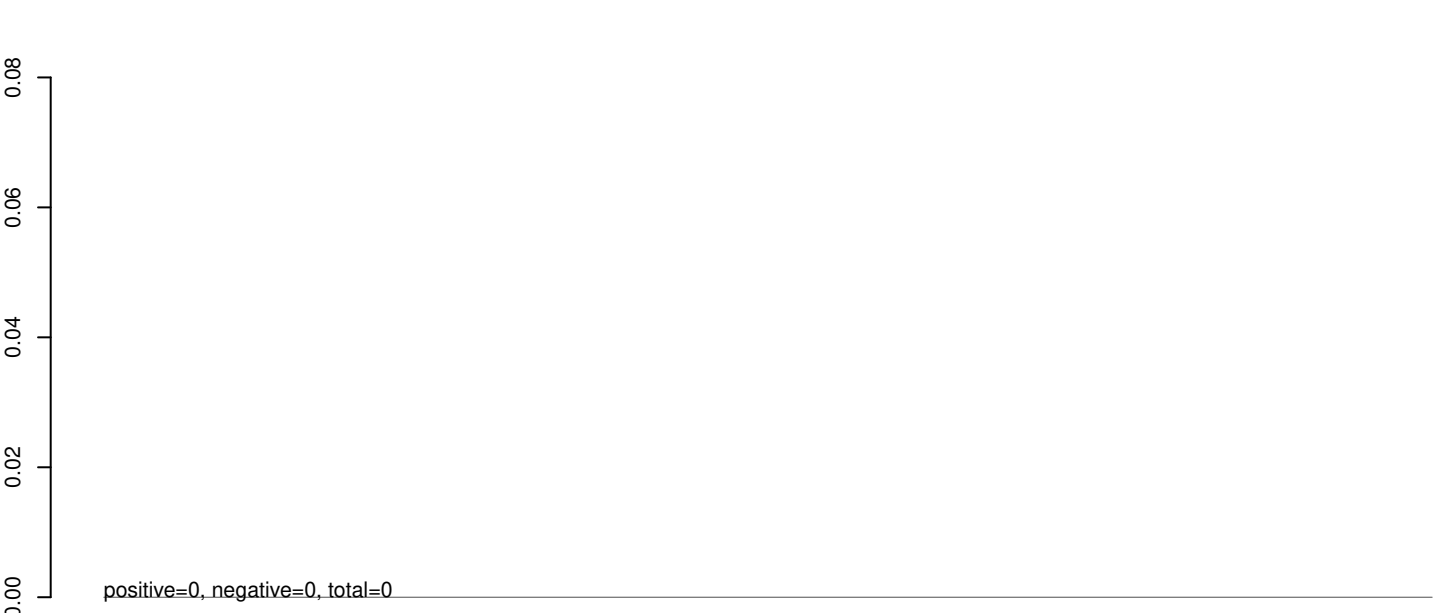
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0 2000 4000 6000 8000 10000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

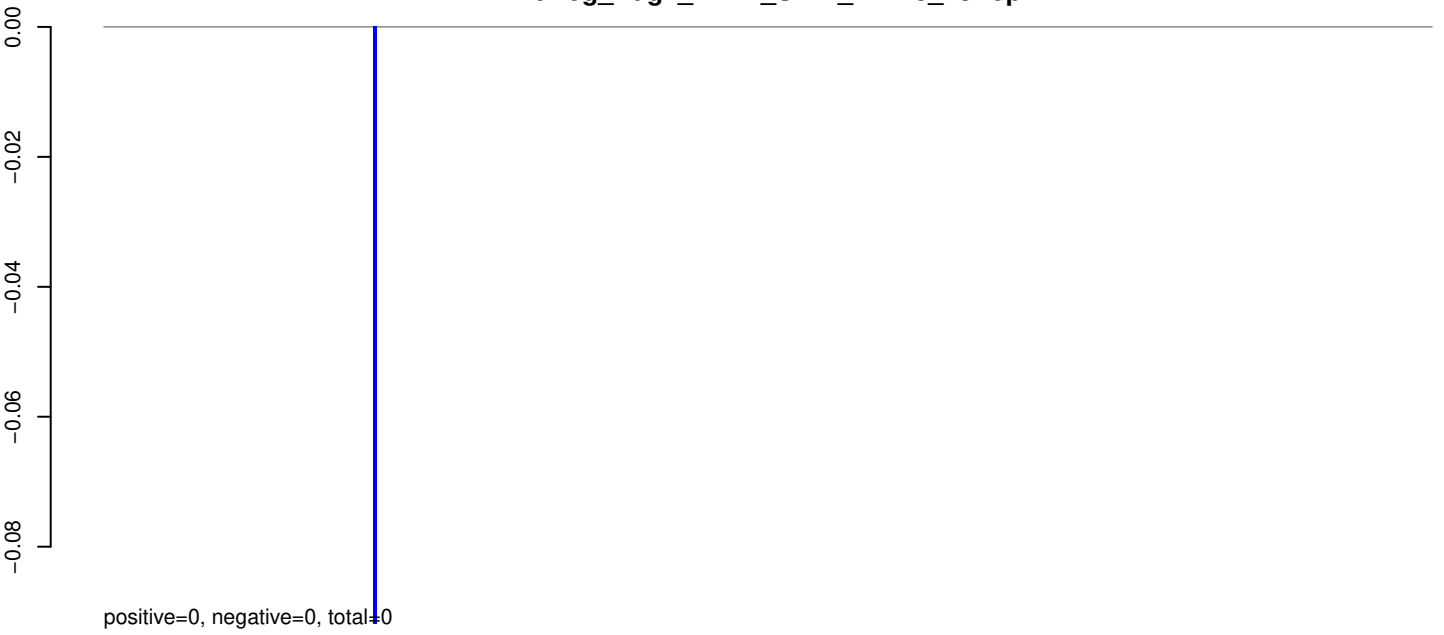


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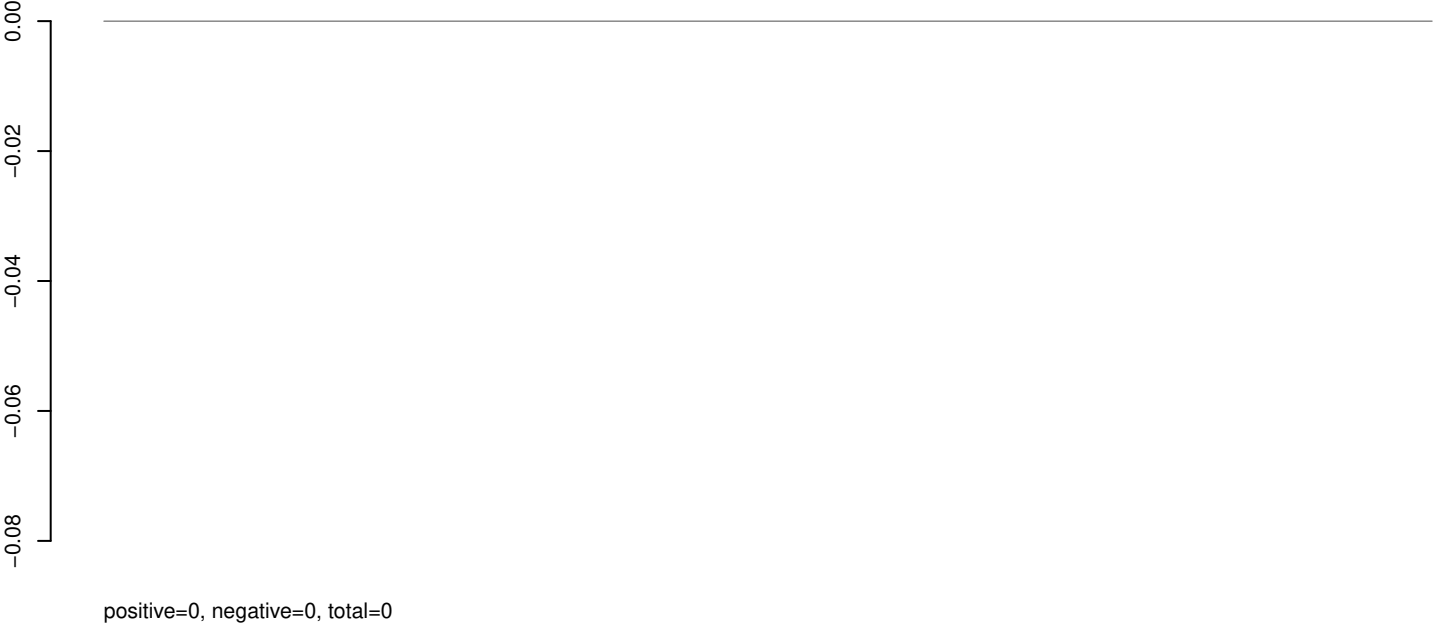


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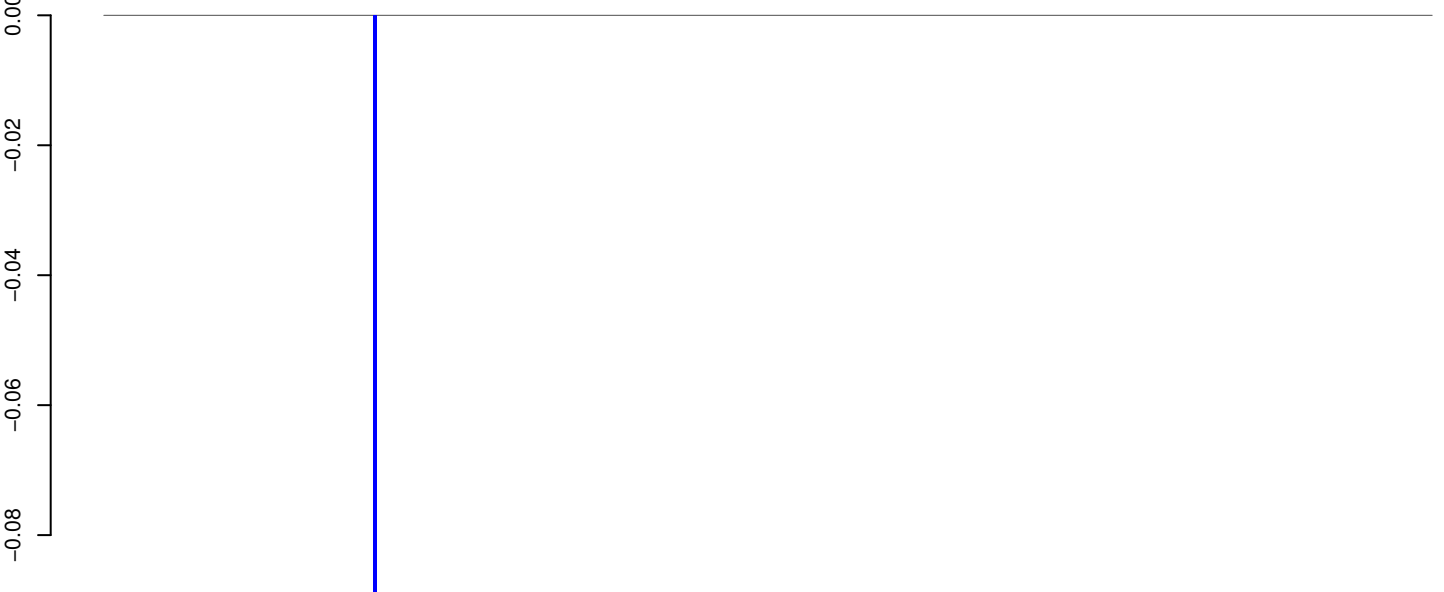
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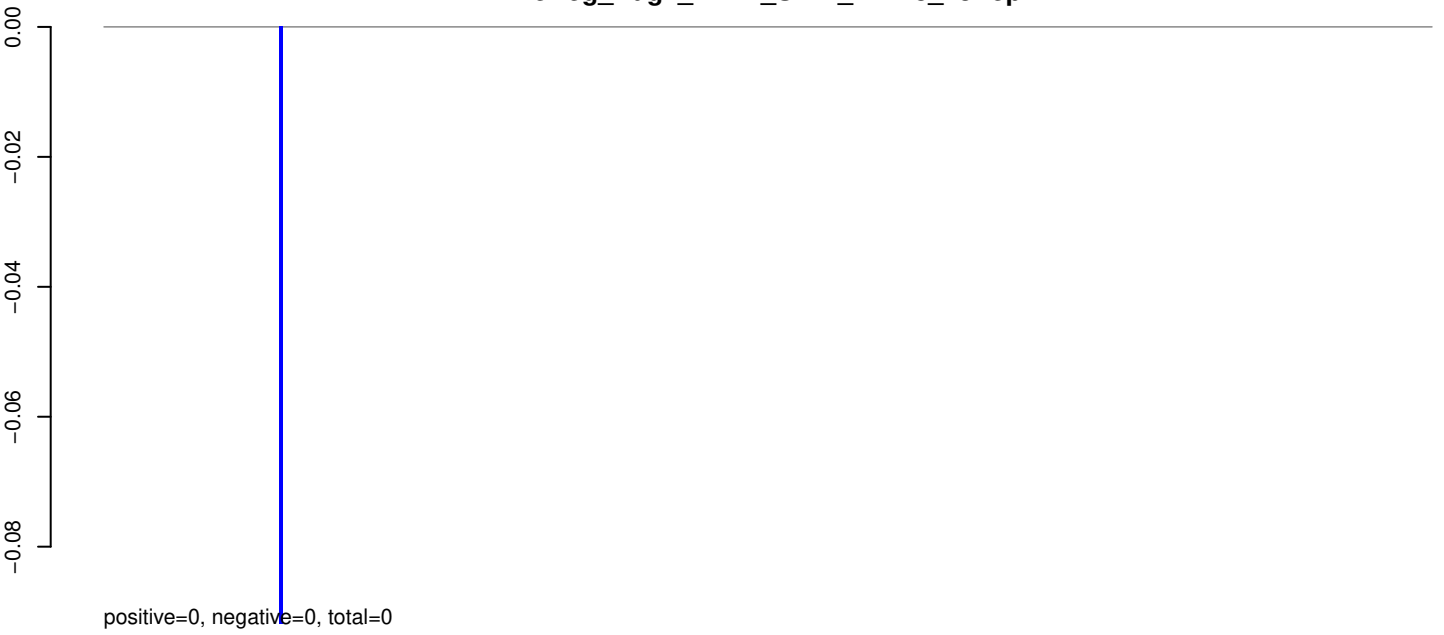
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



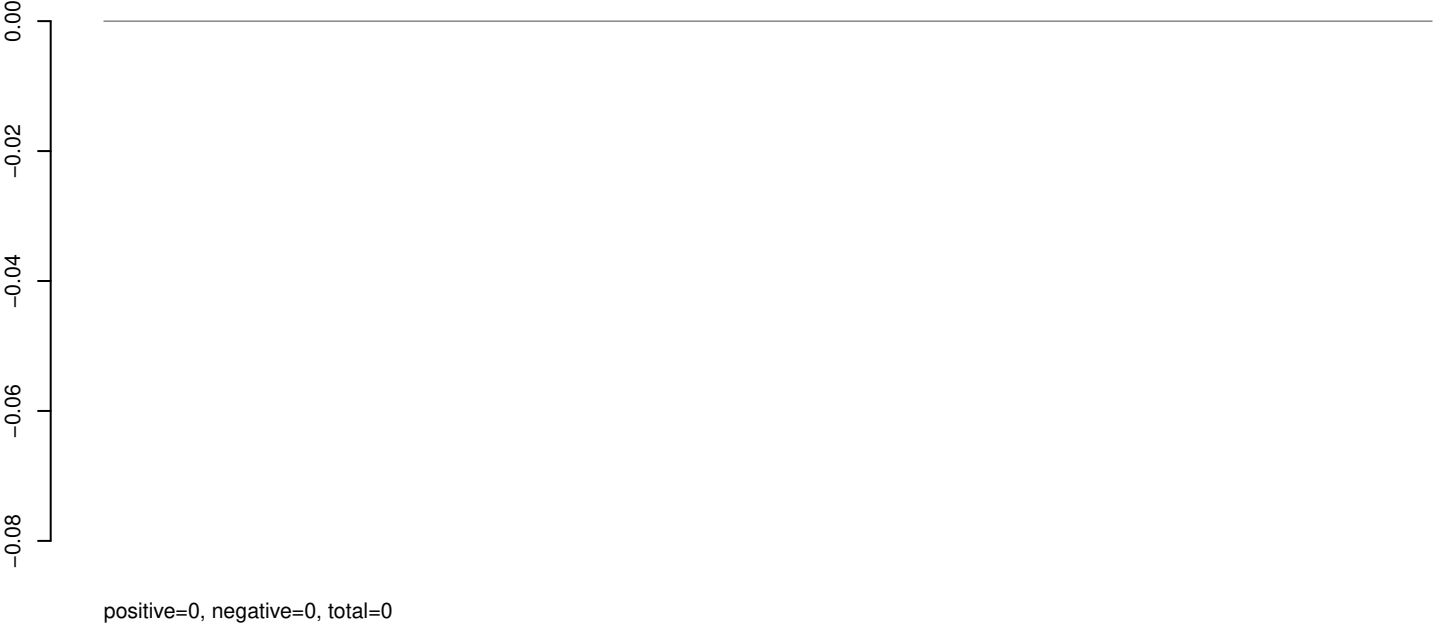
**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



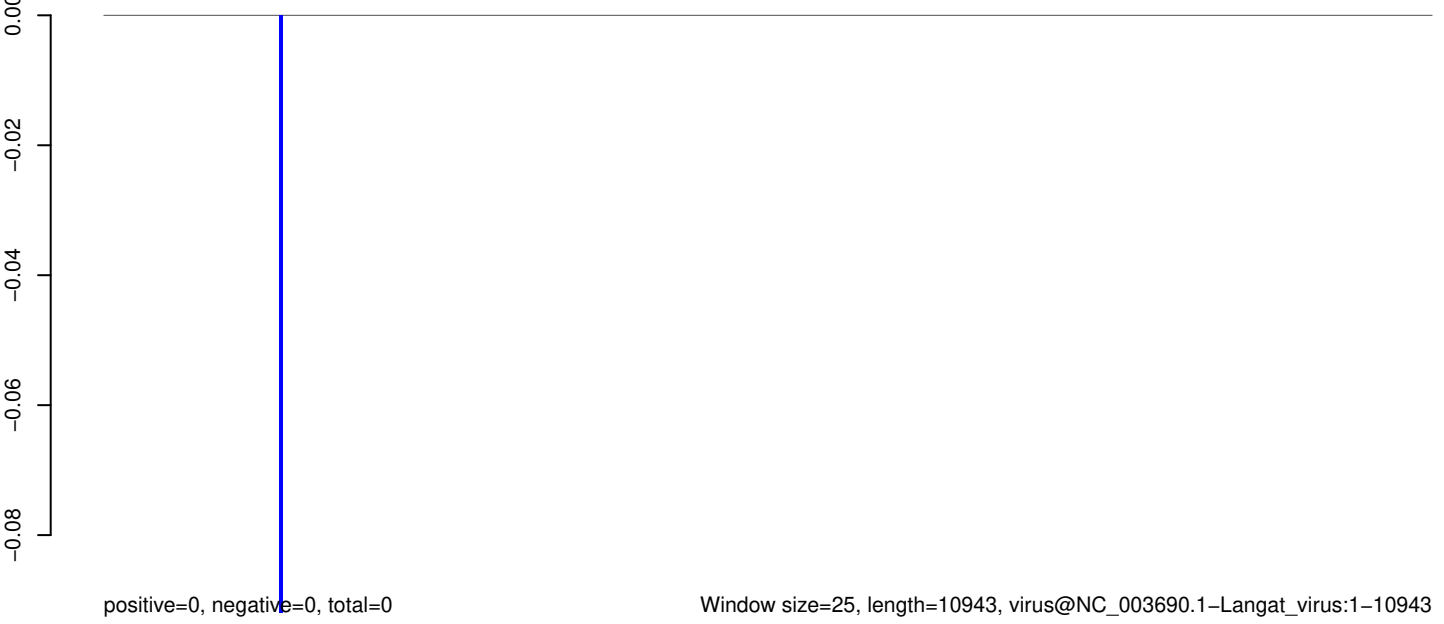
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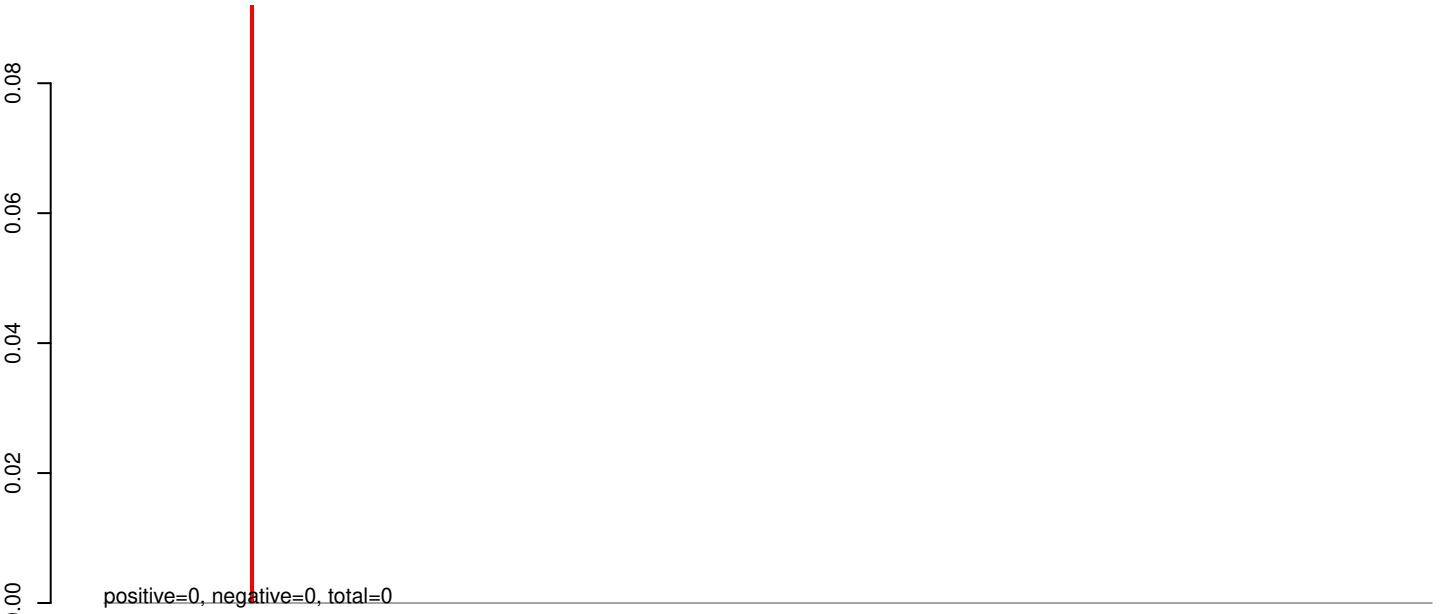
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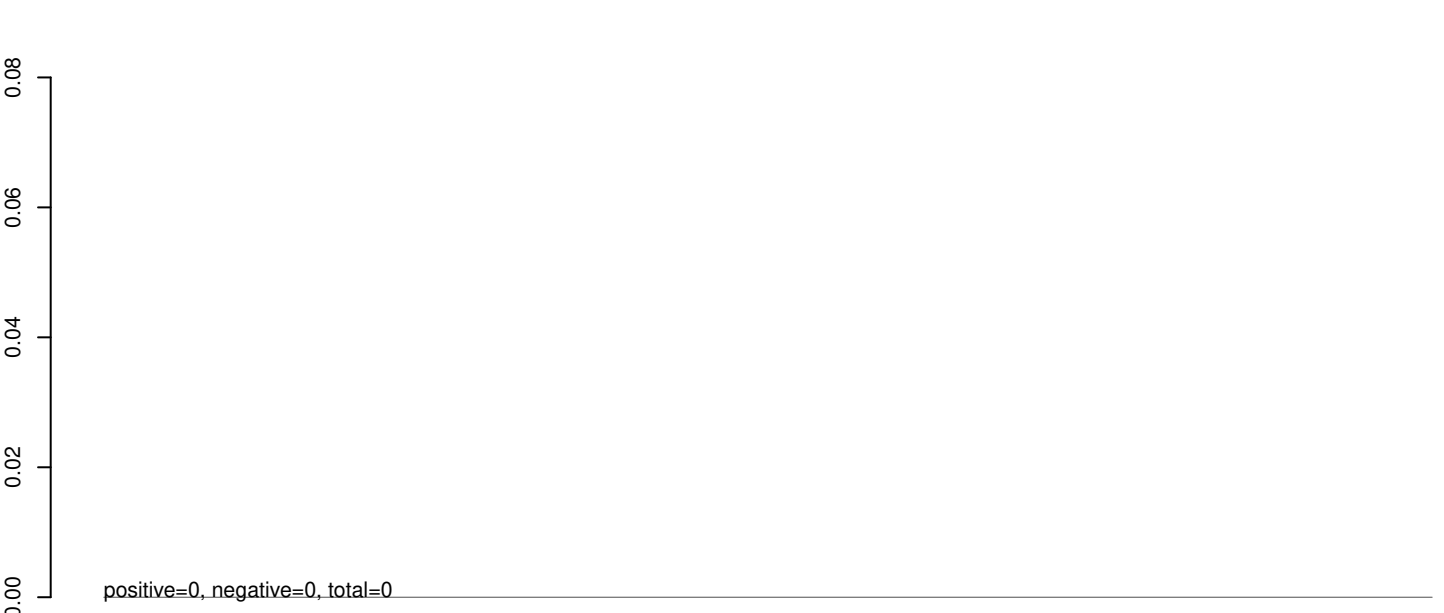
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**

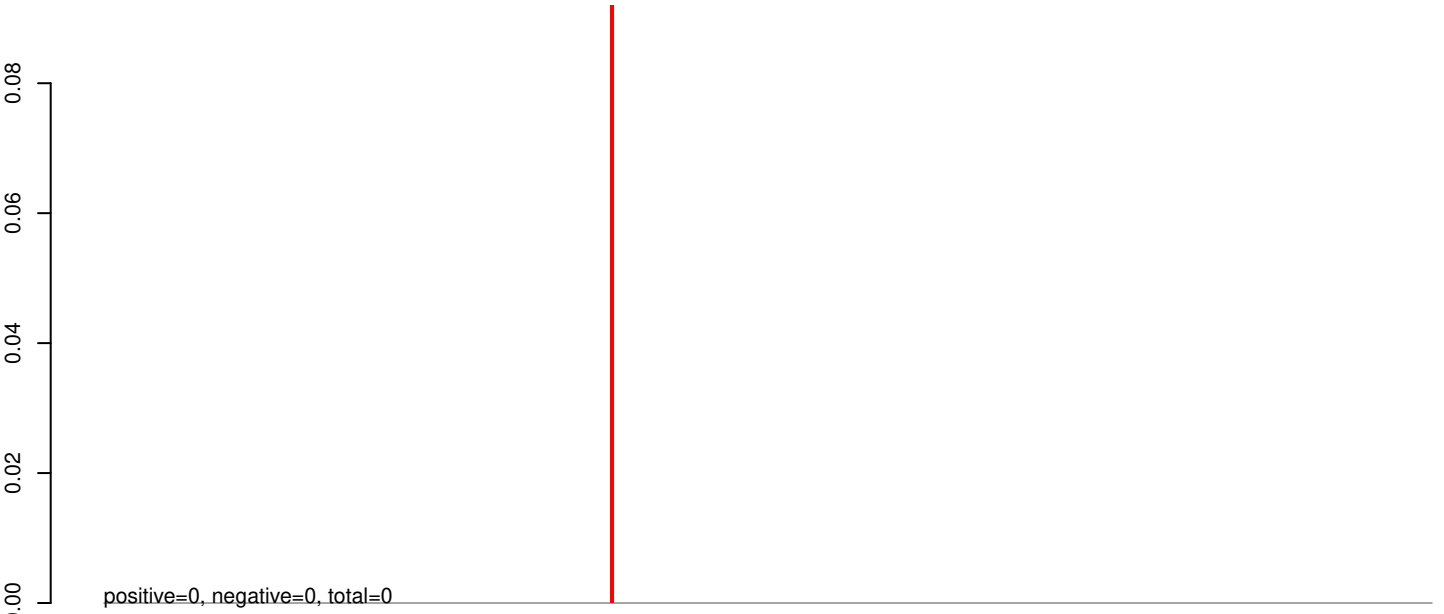


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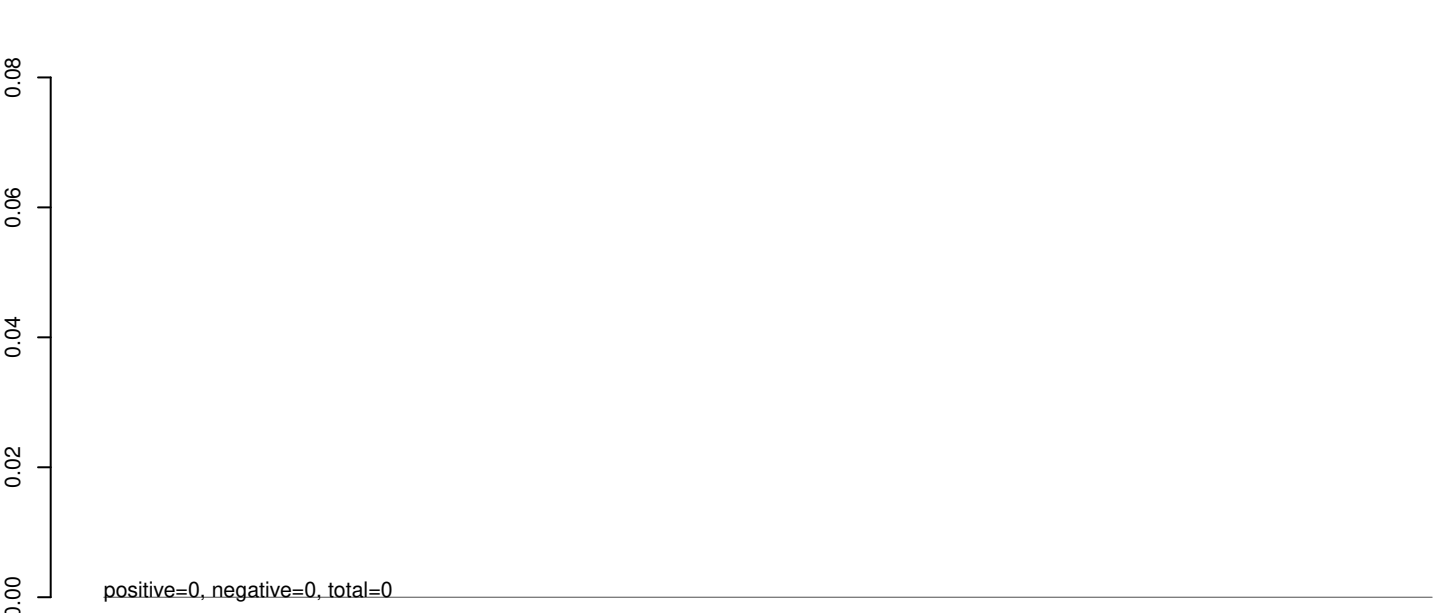




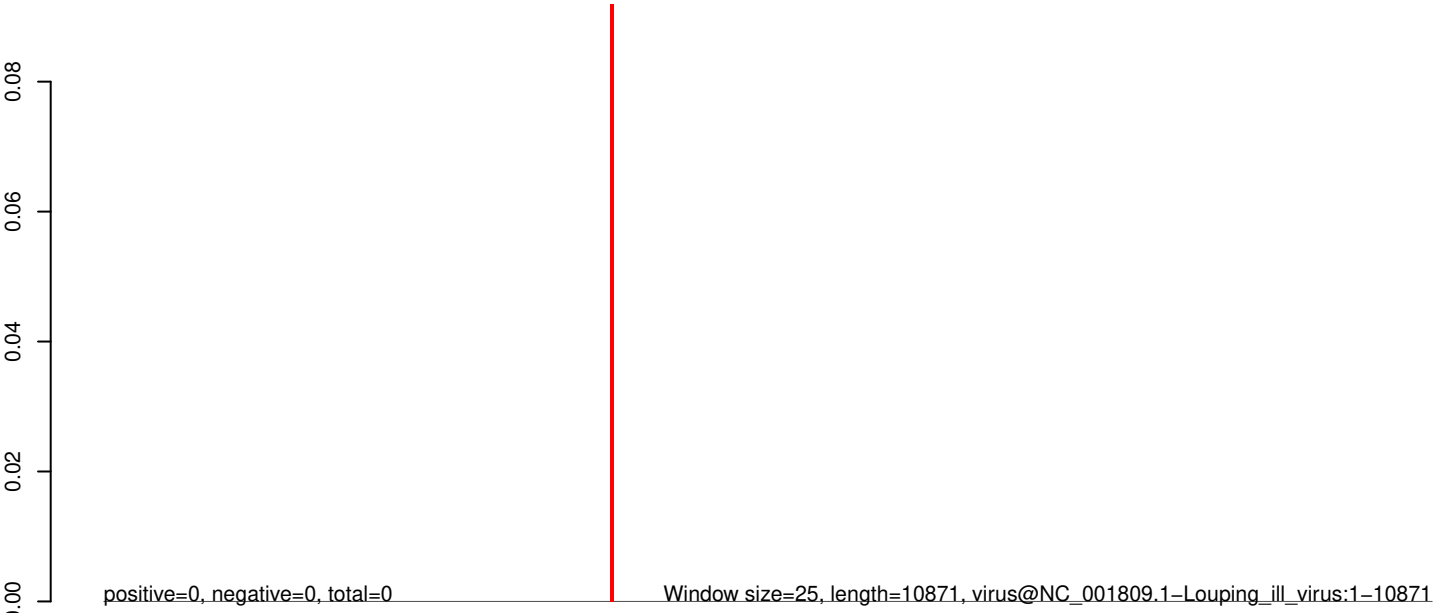
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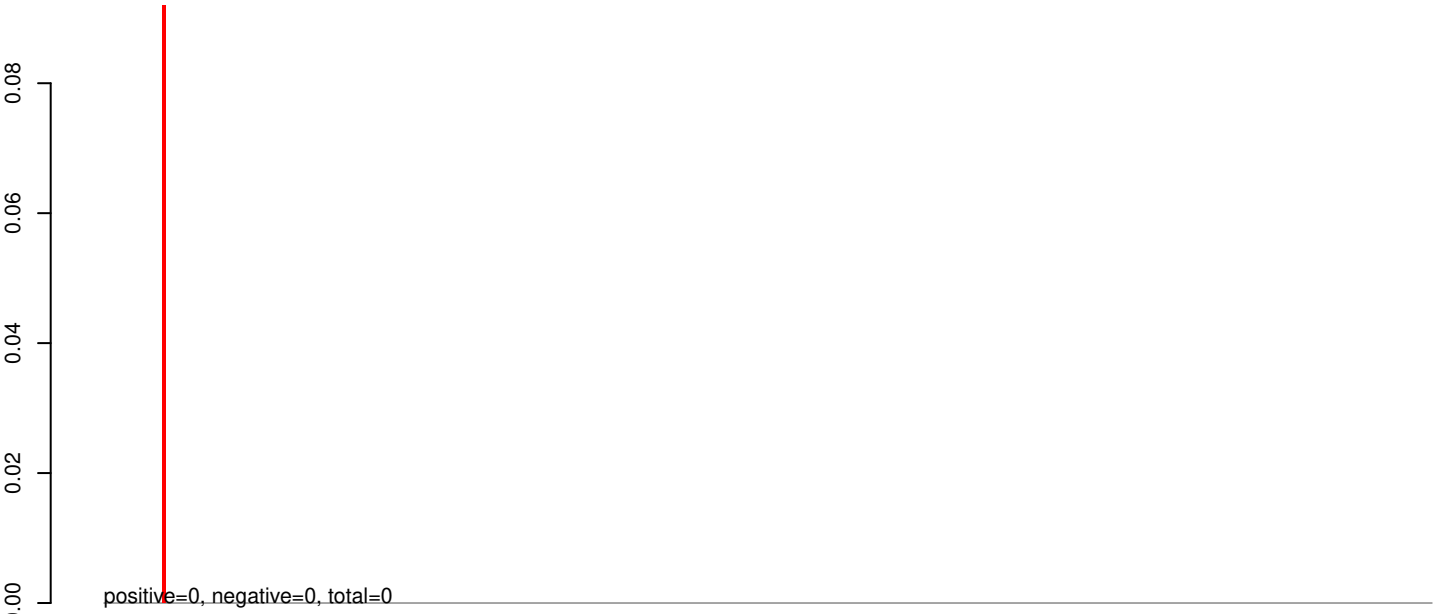
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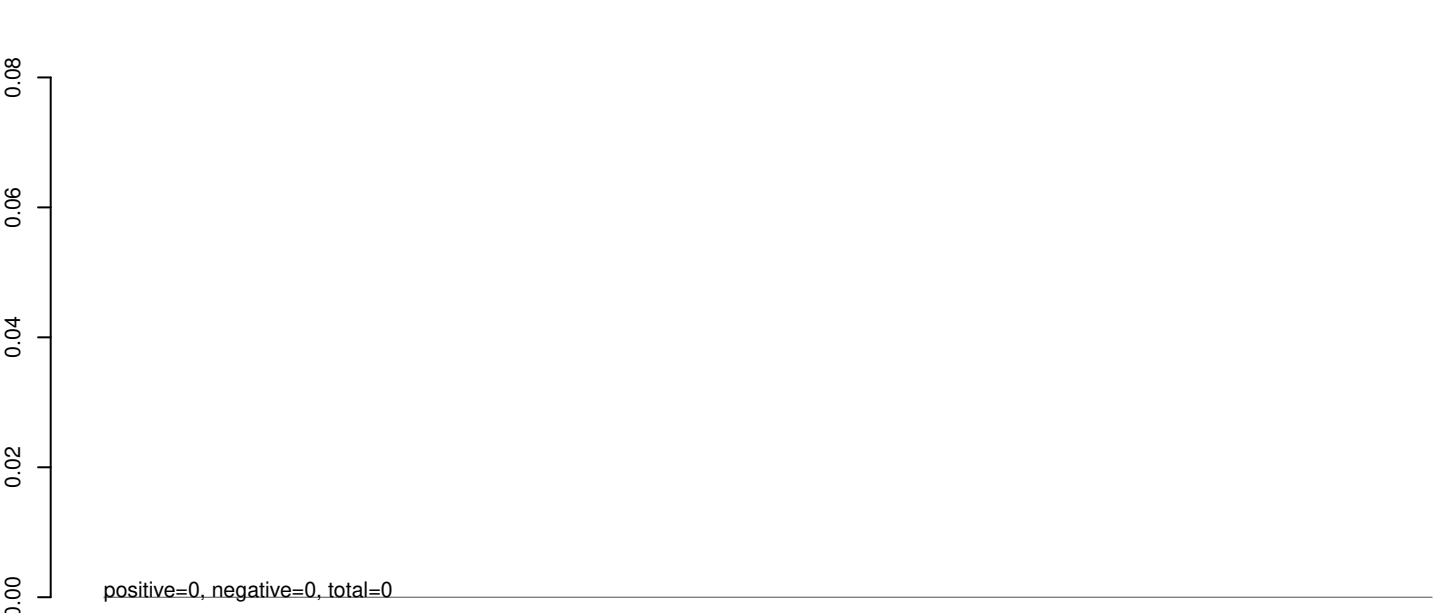
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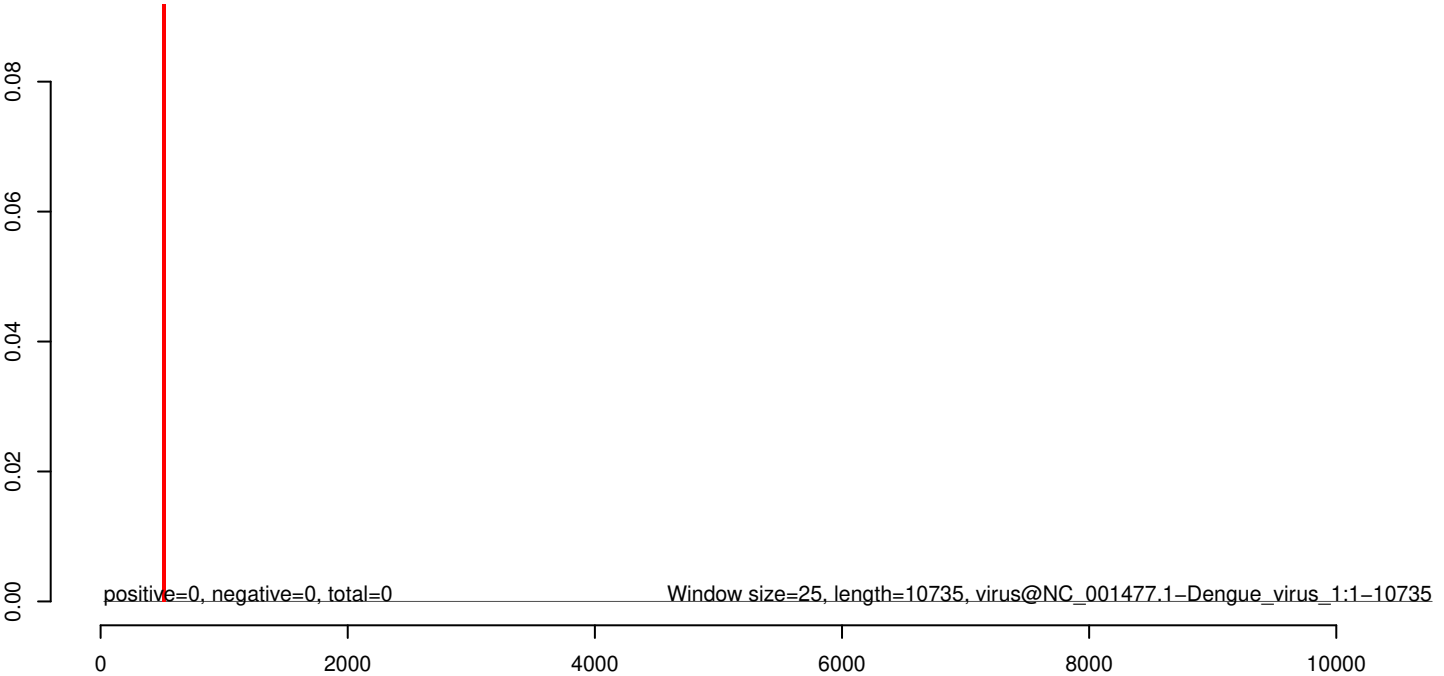
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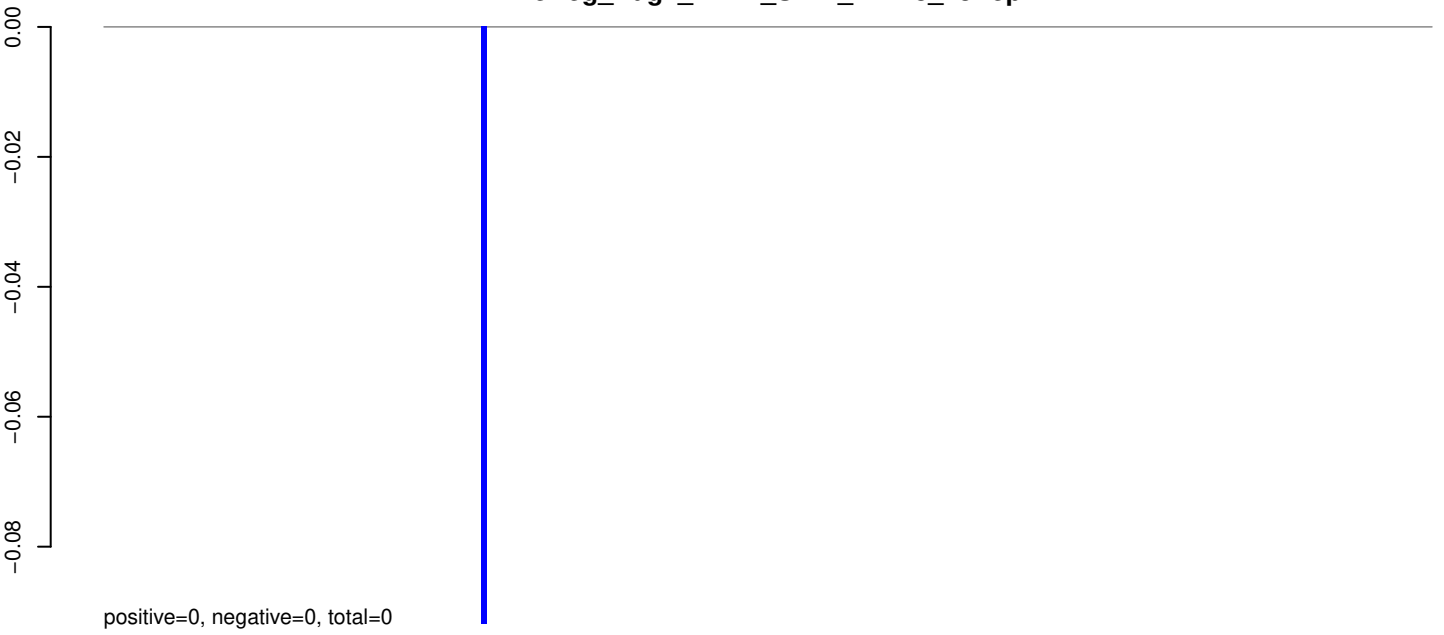
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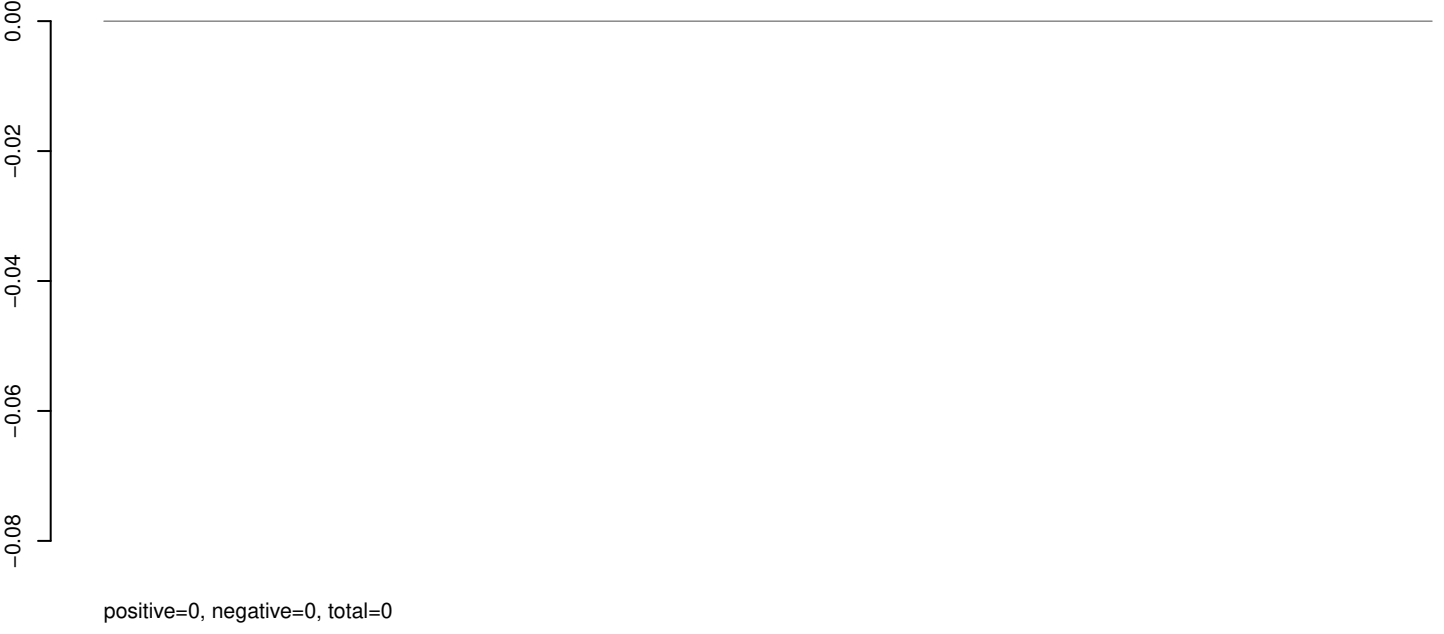
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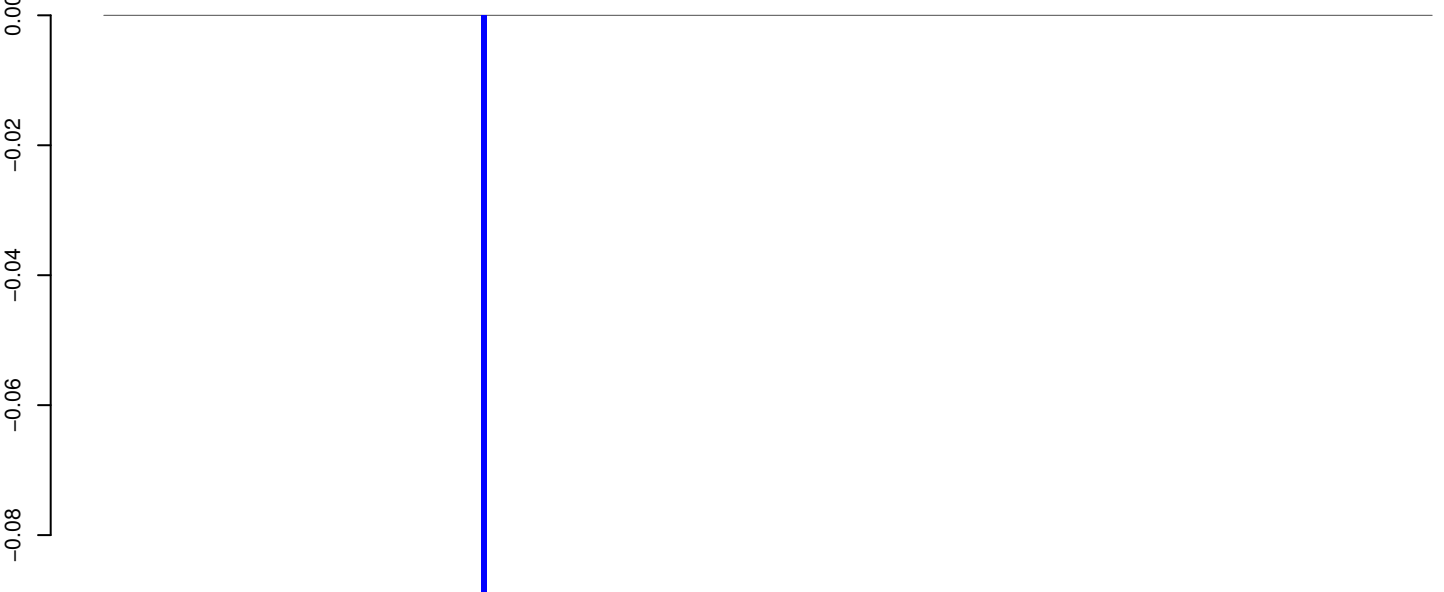
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



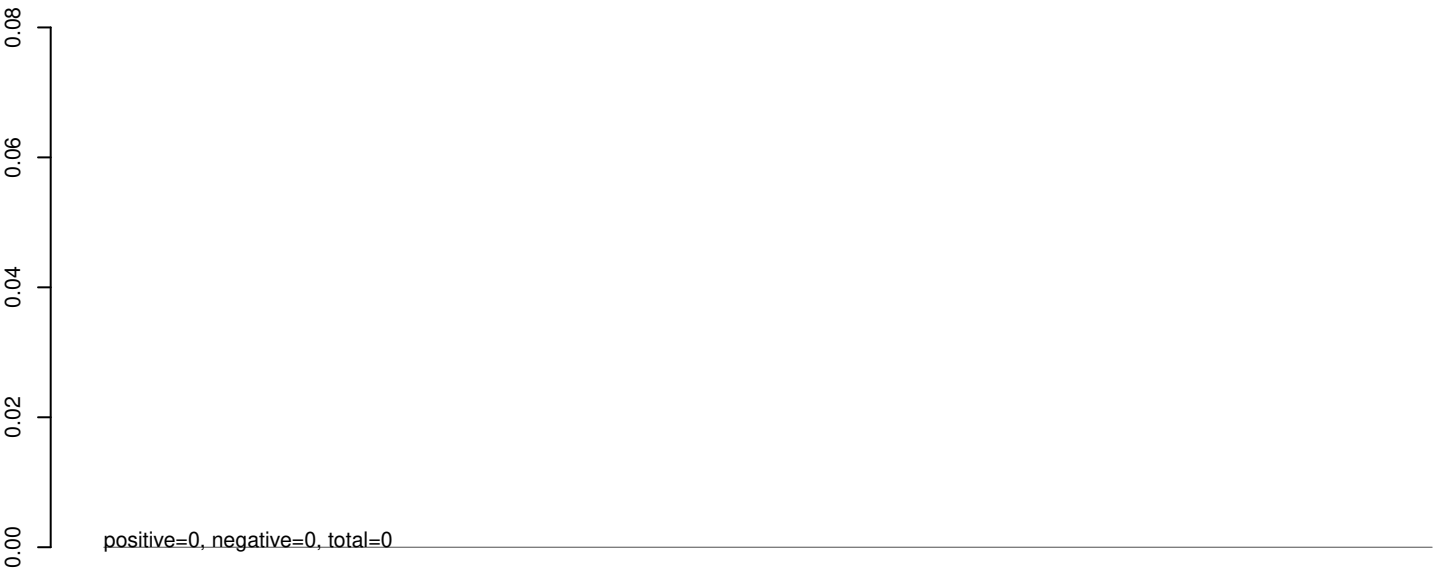
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



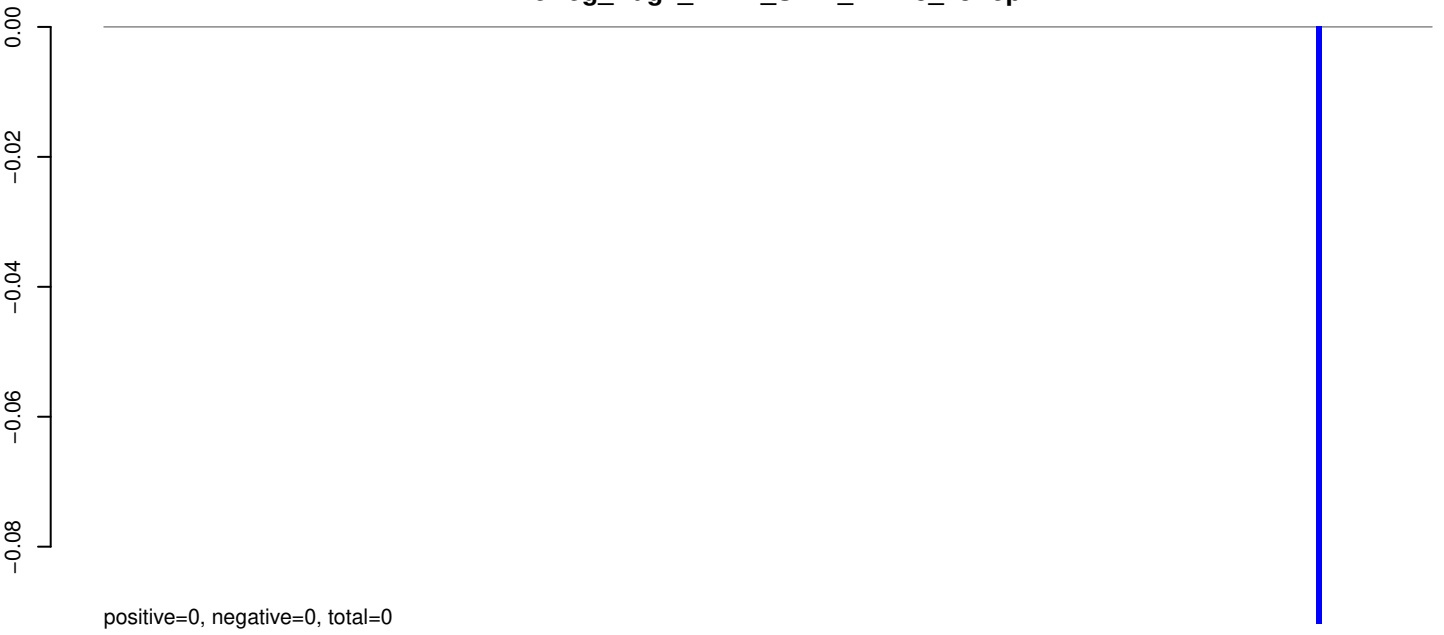
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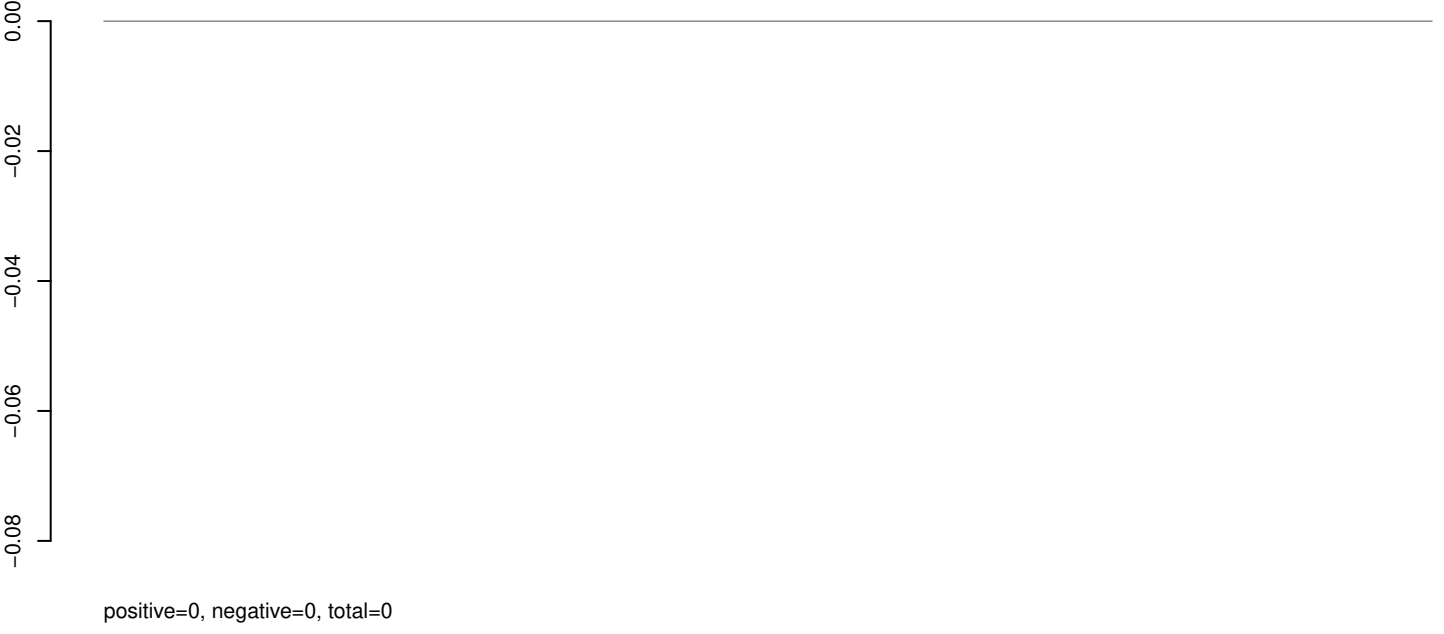
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



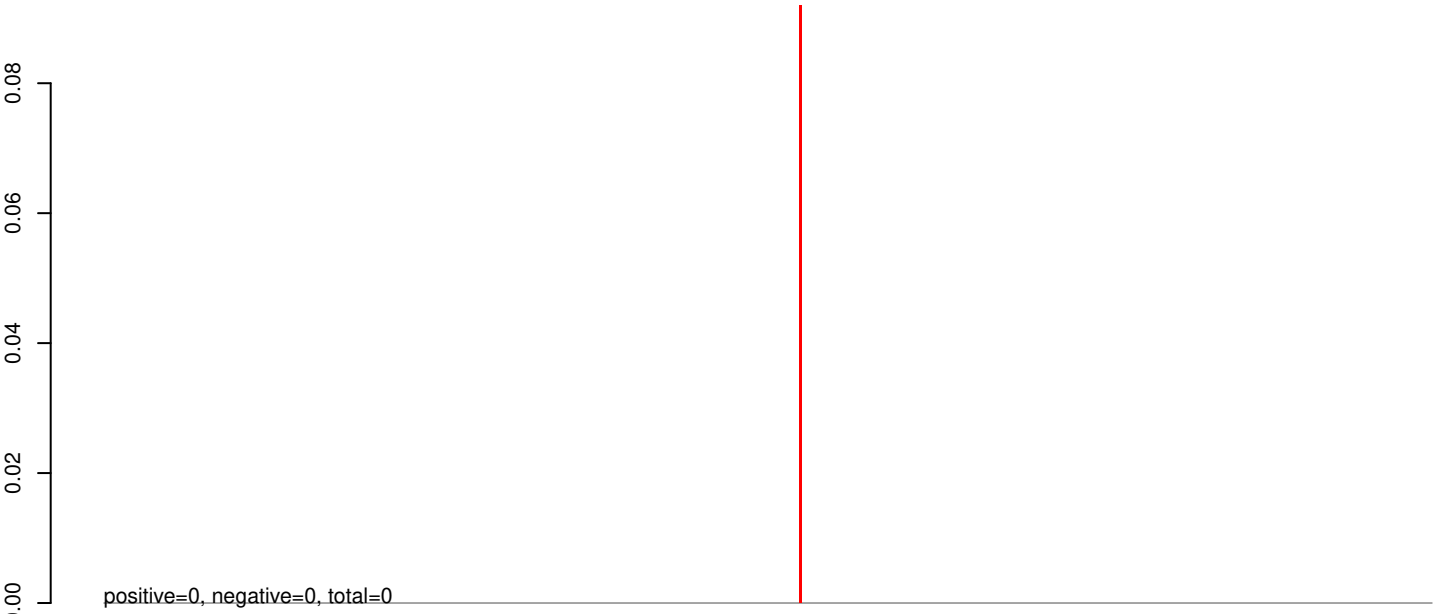
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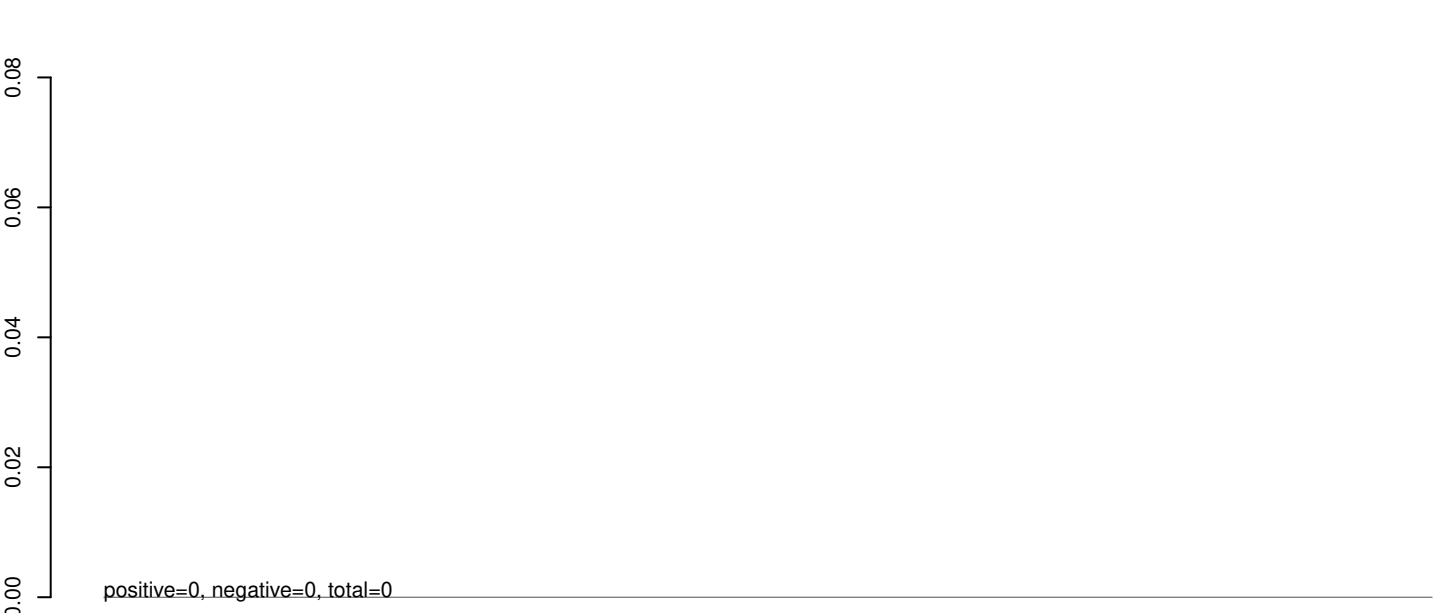
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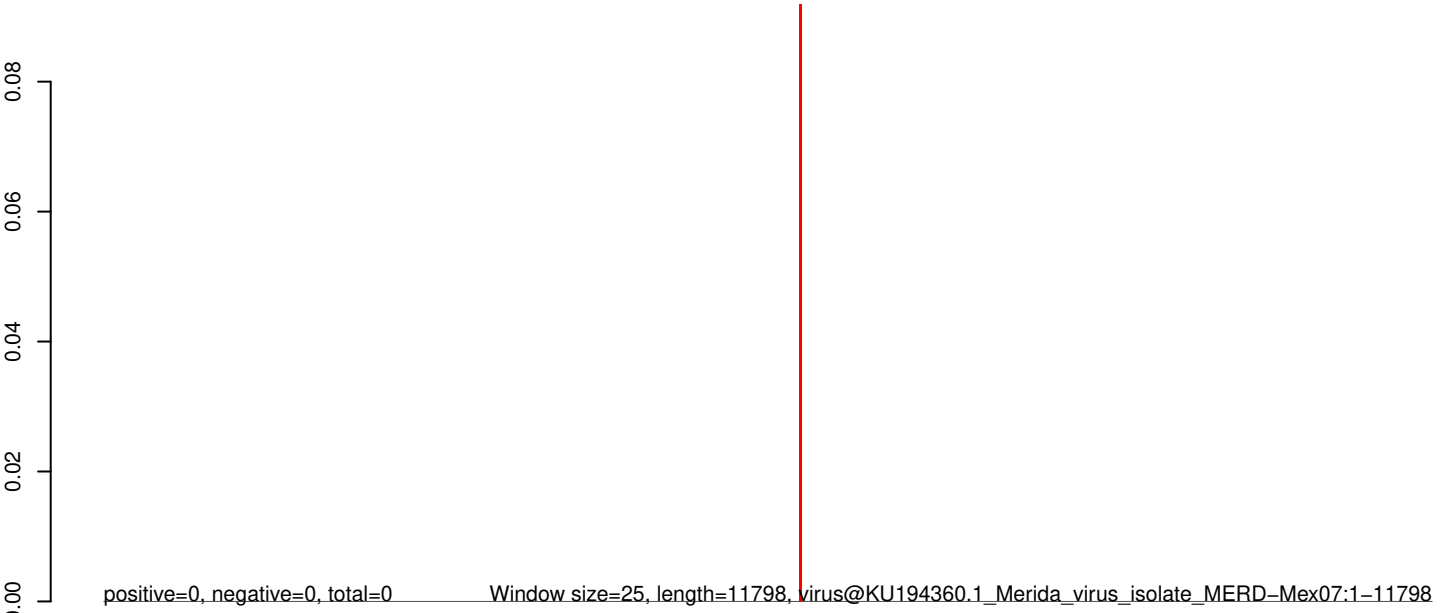
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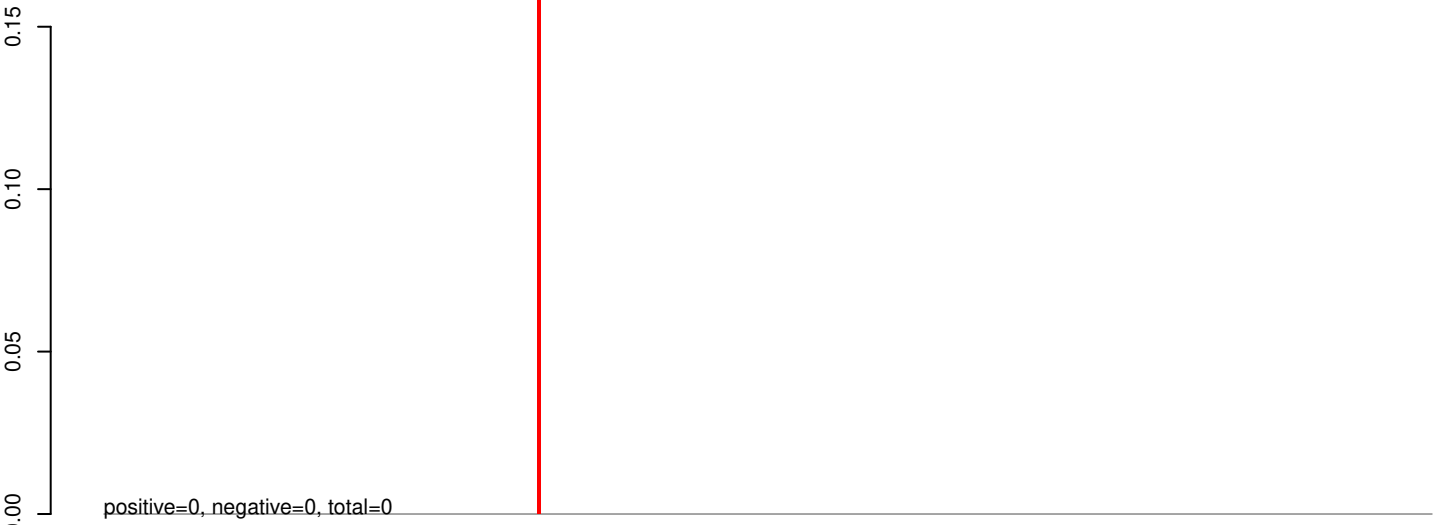


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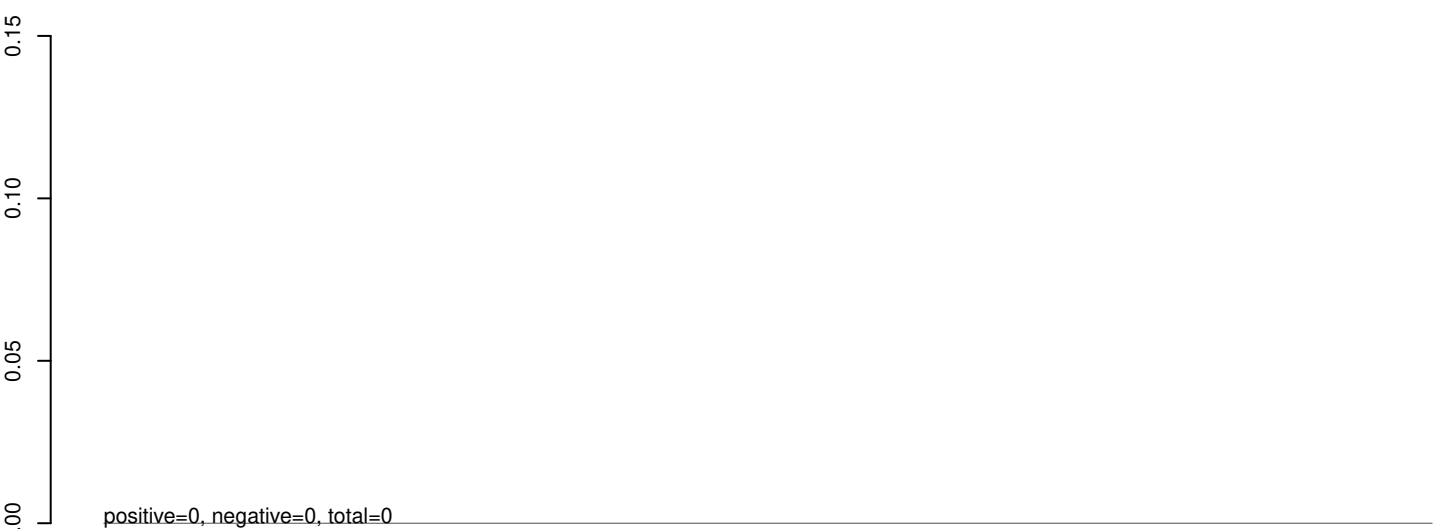


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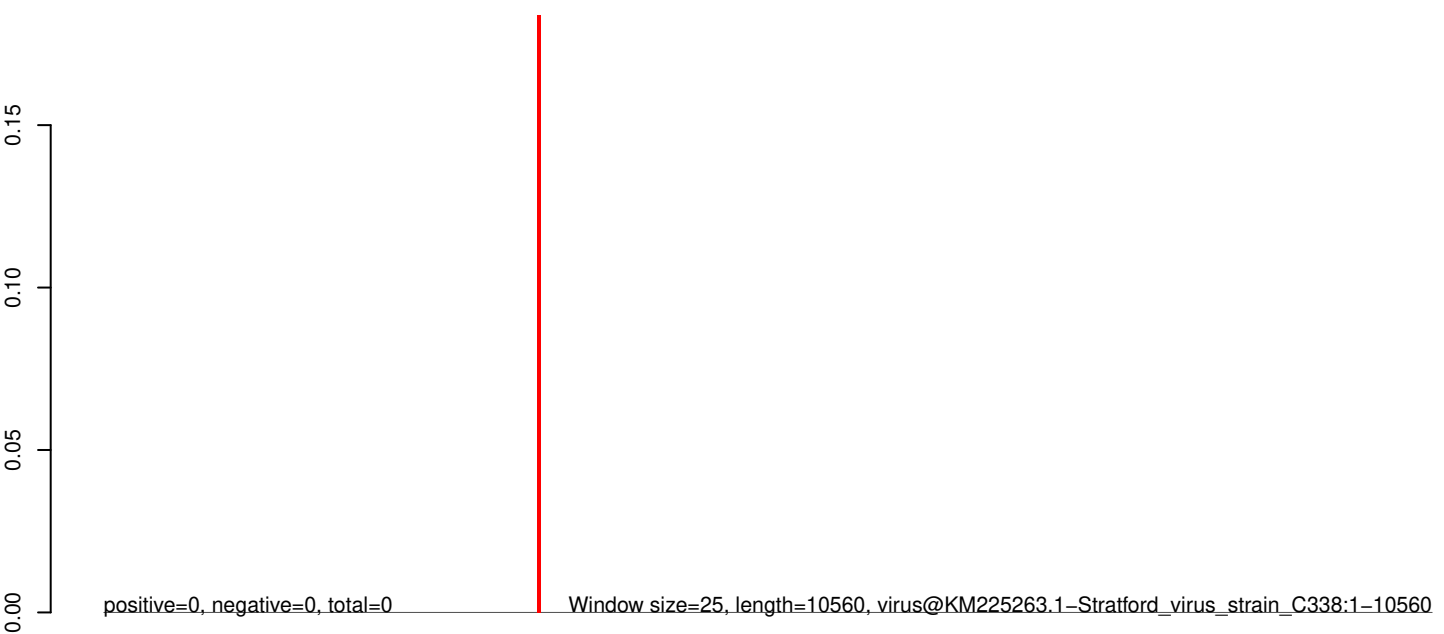
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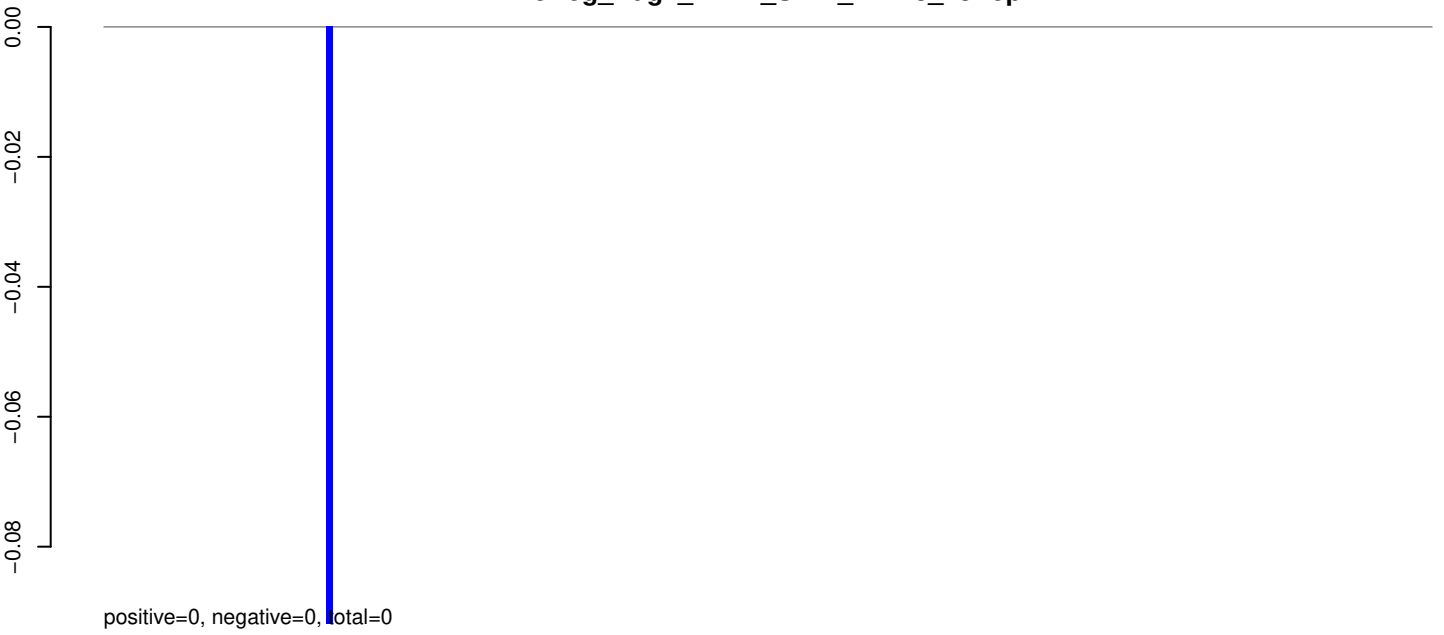
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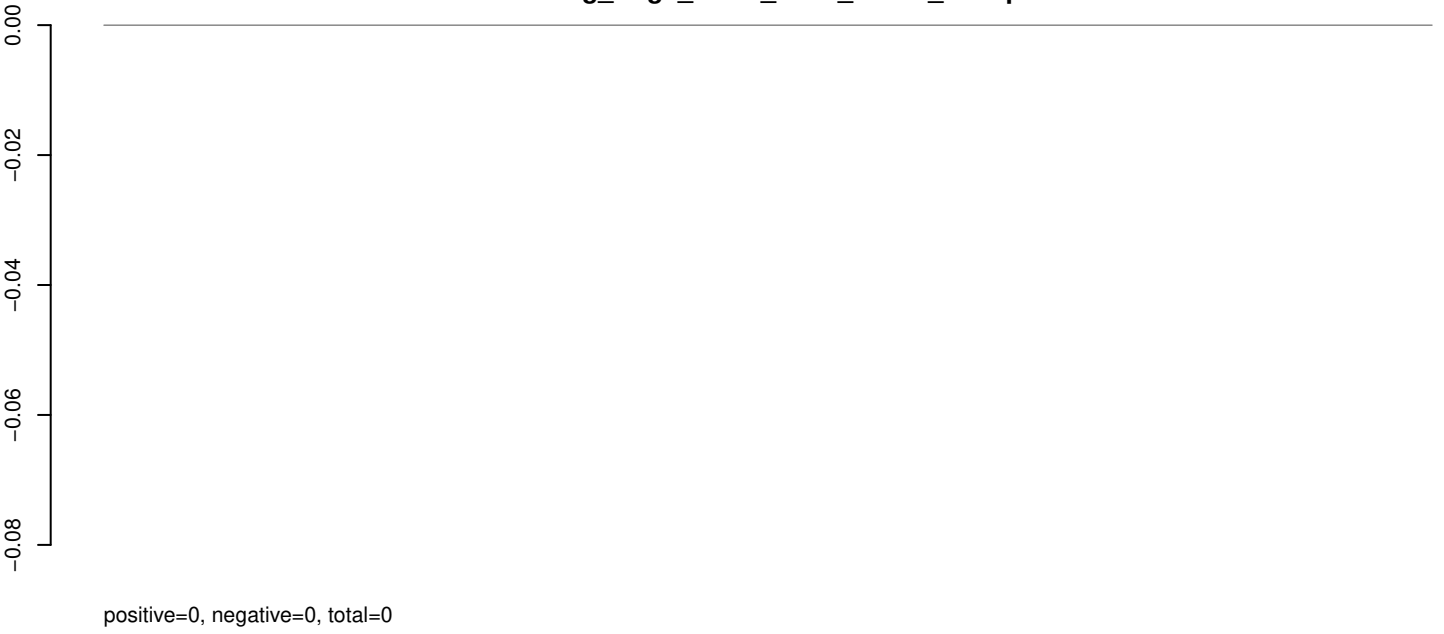
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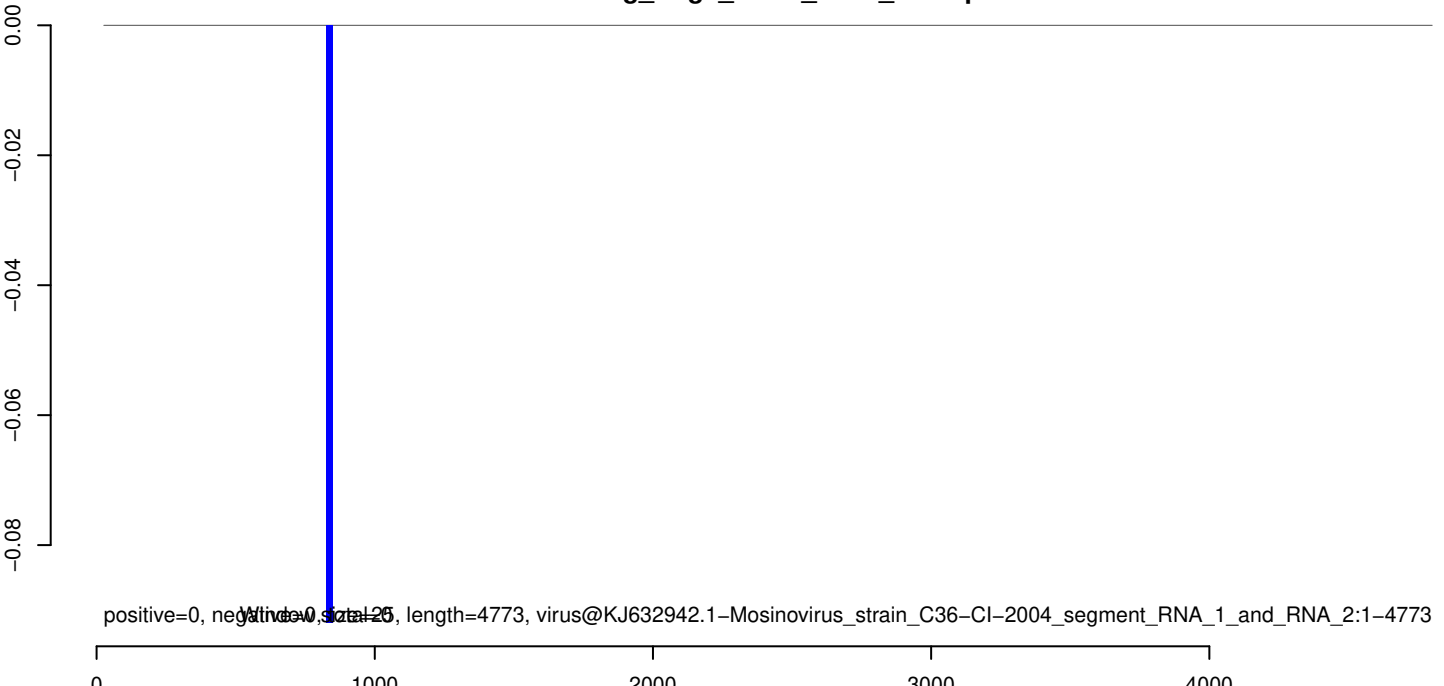
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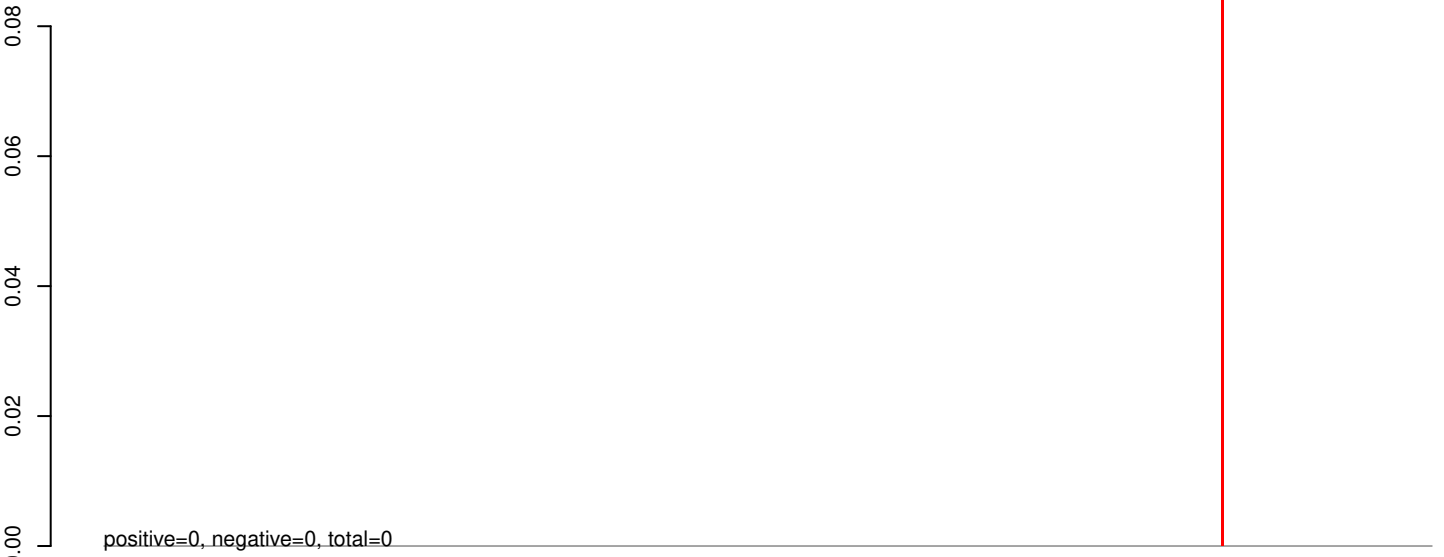


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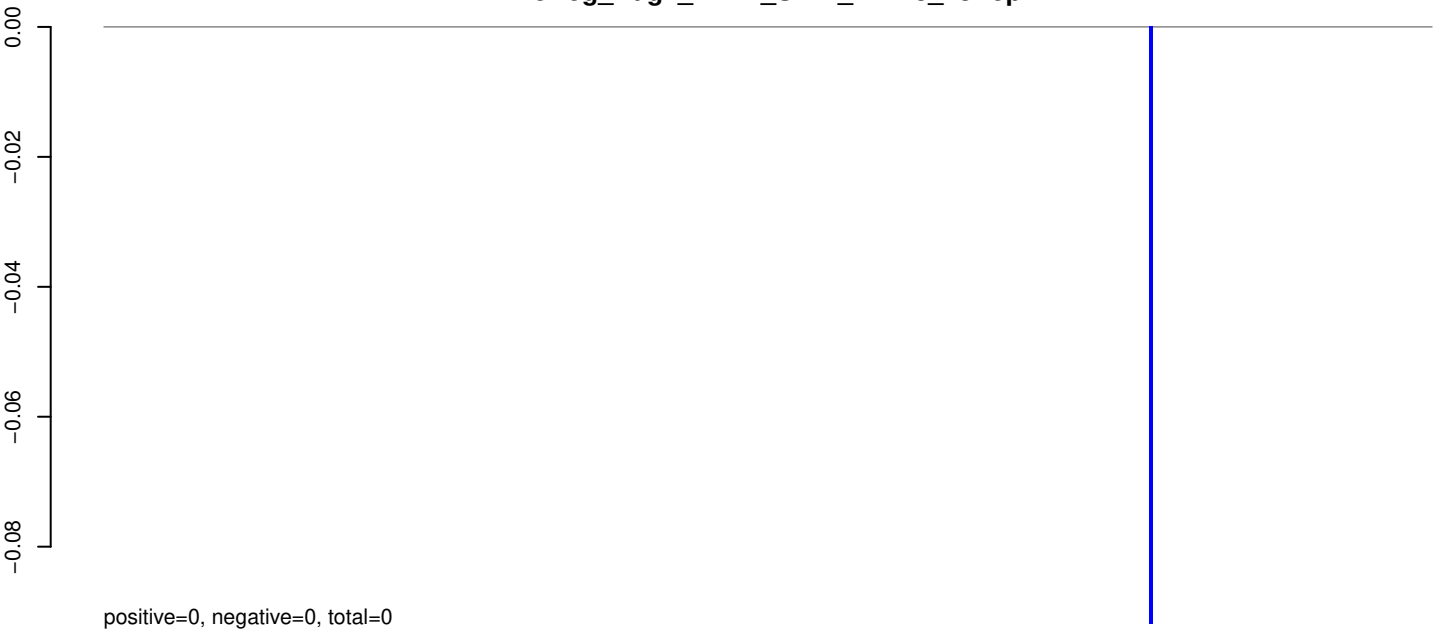
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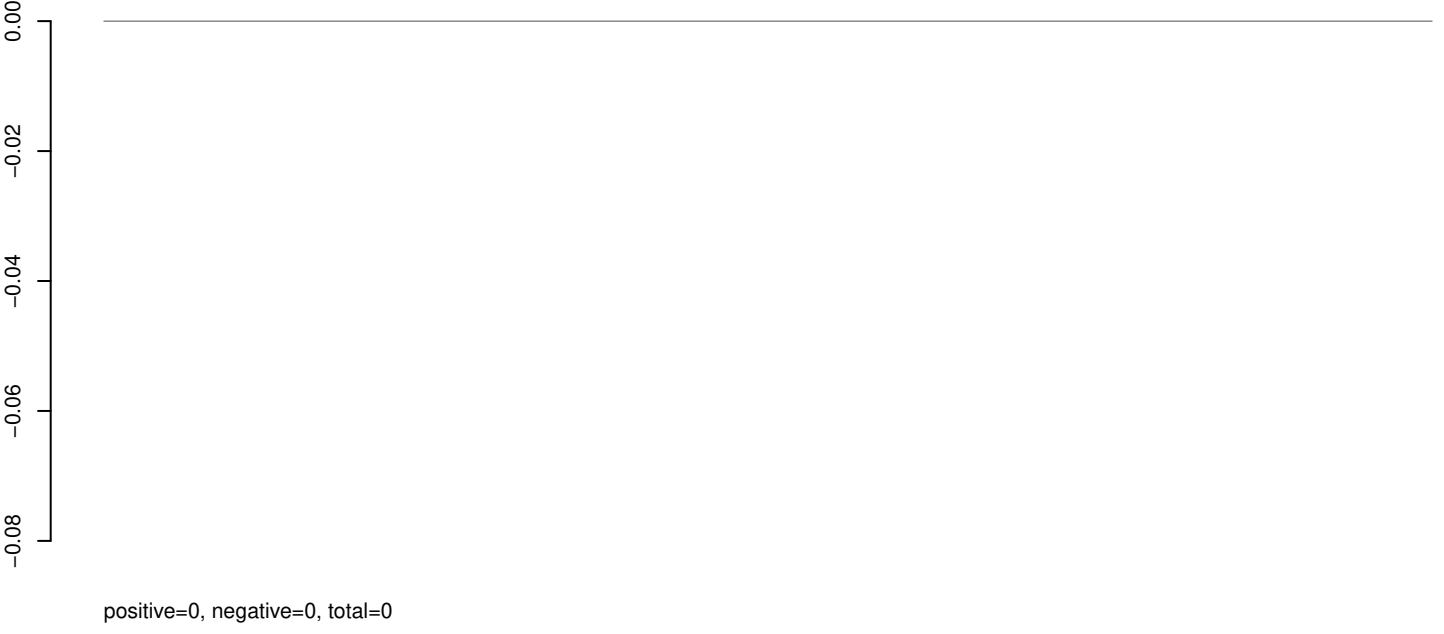


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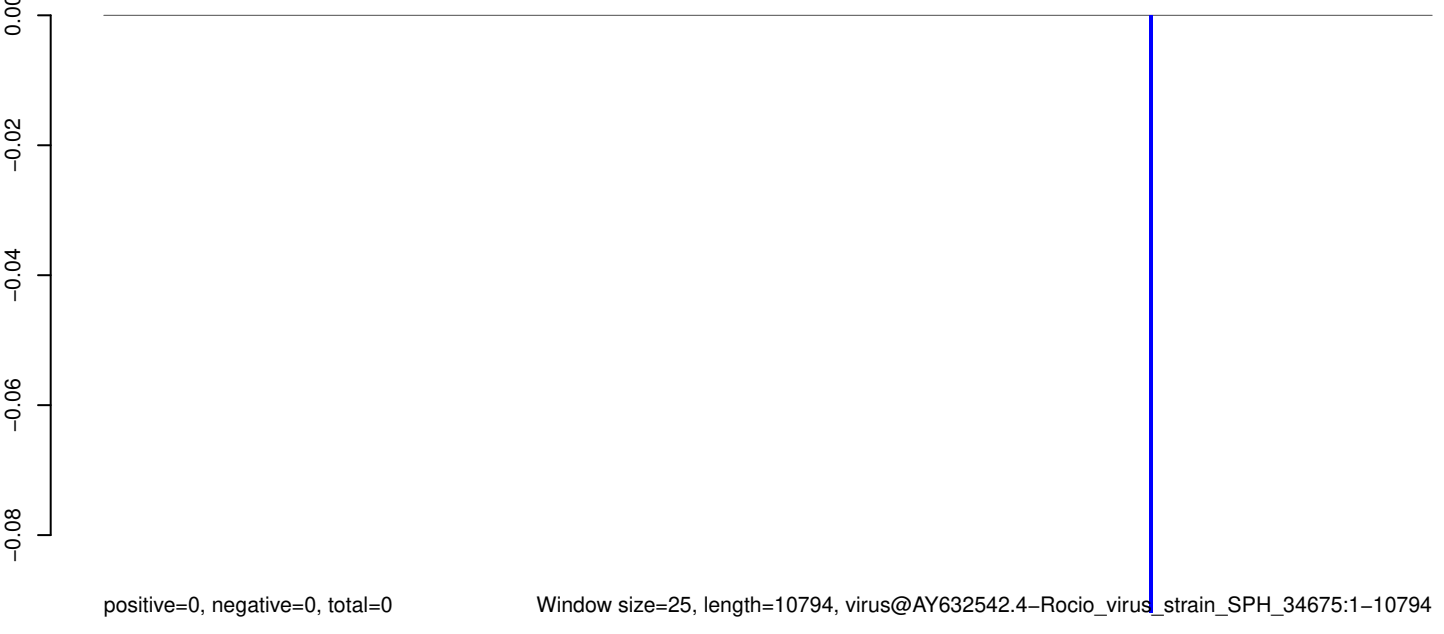
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

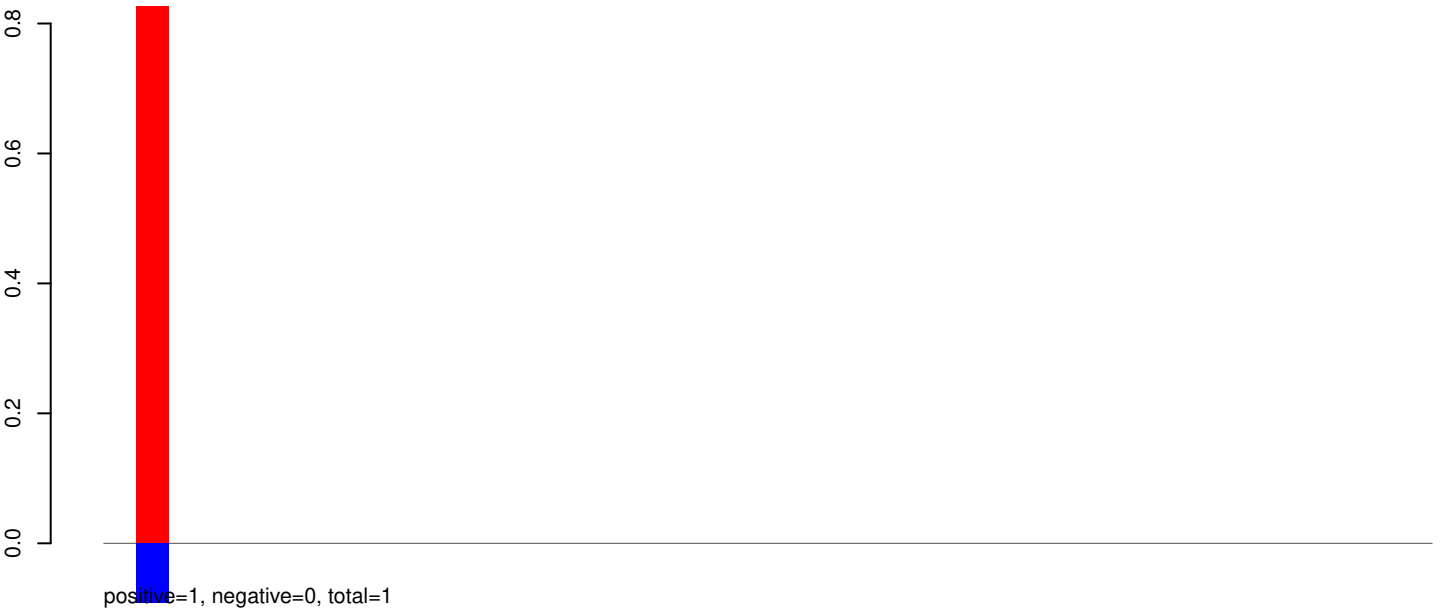


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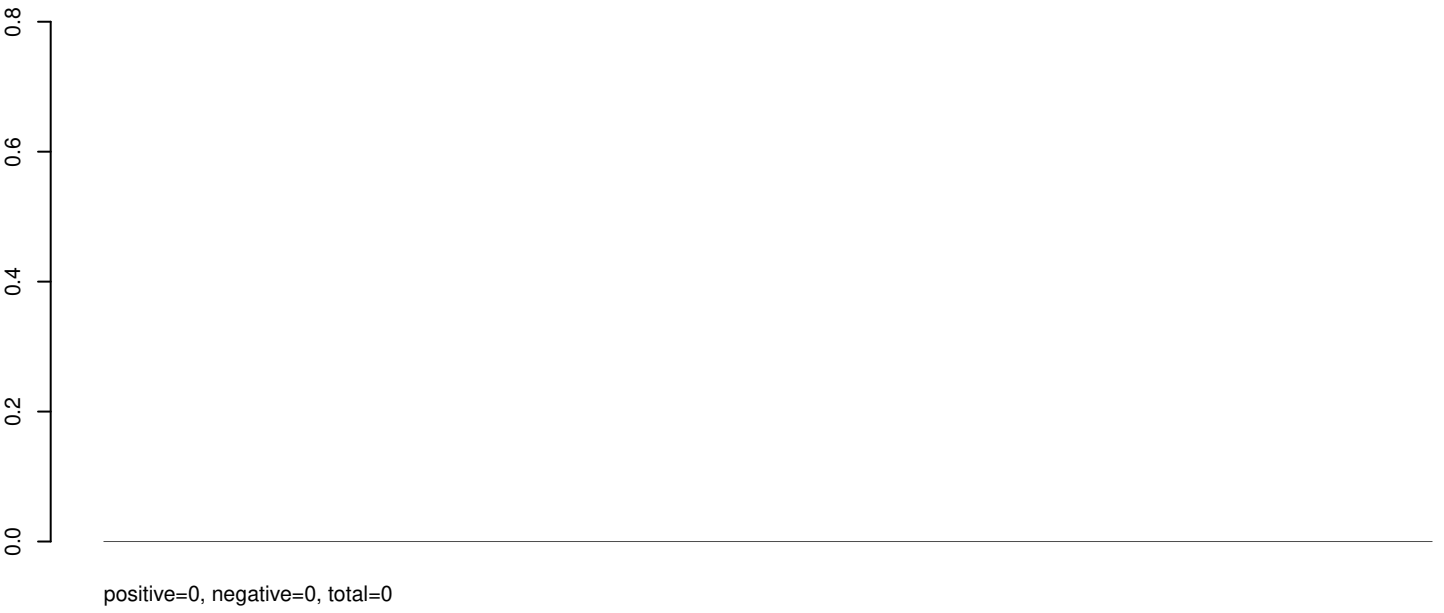
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0 2000 4000 6000 8000 10000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



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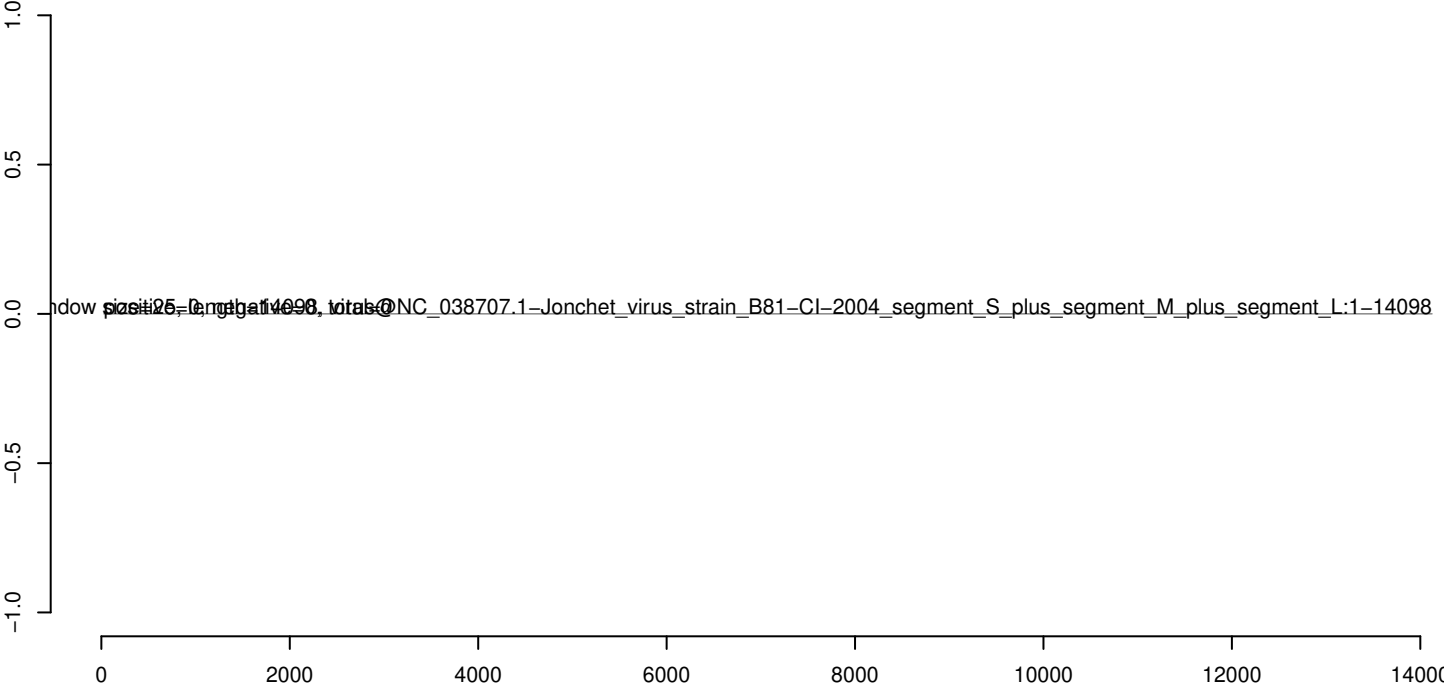
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



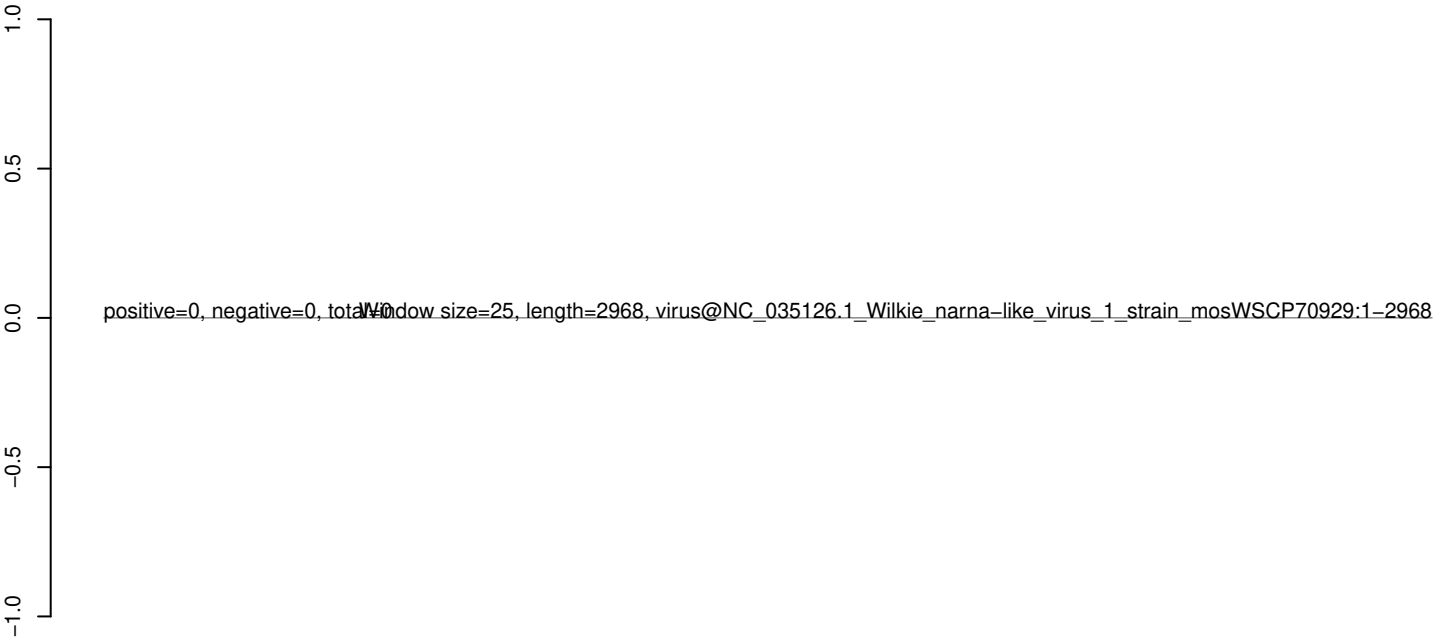
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



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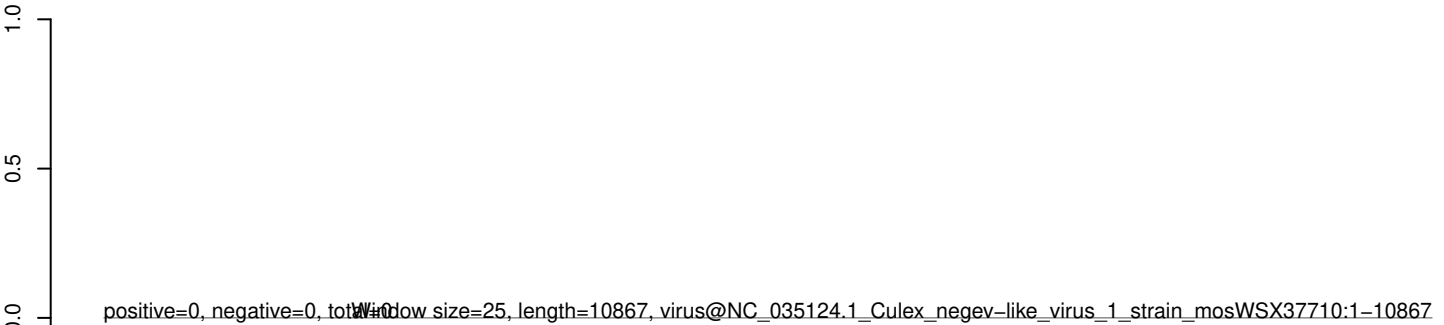
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



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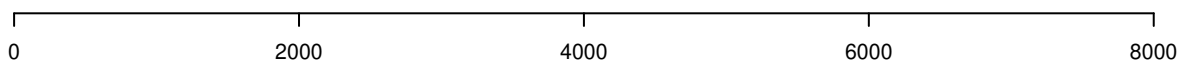
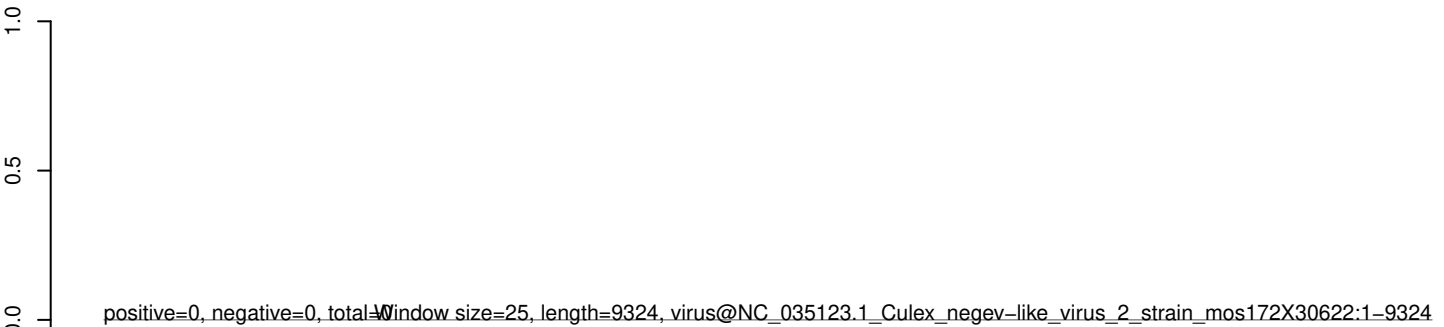
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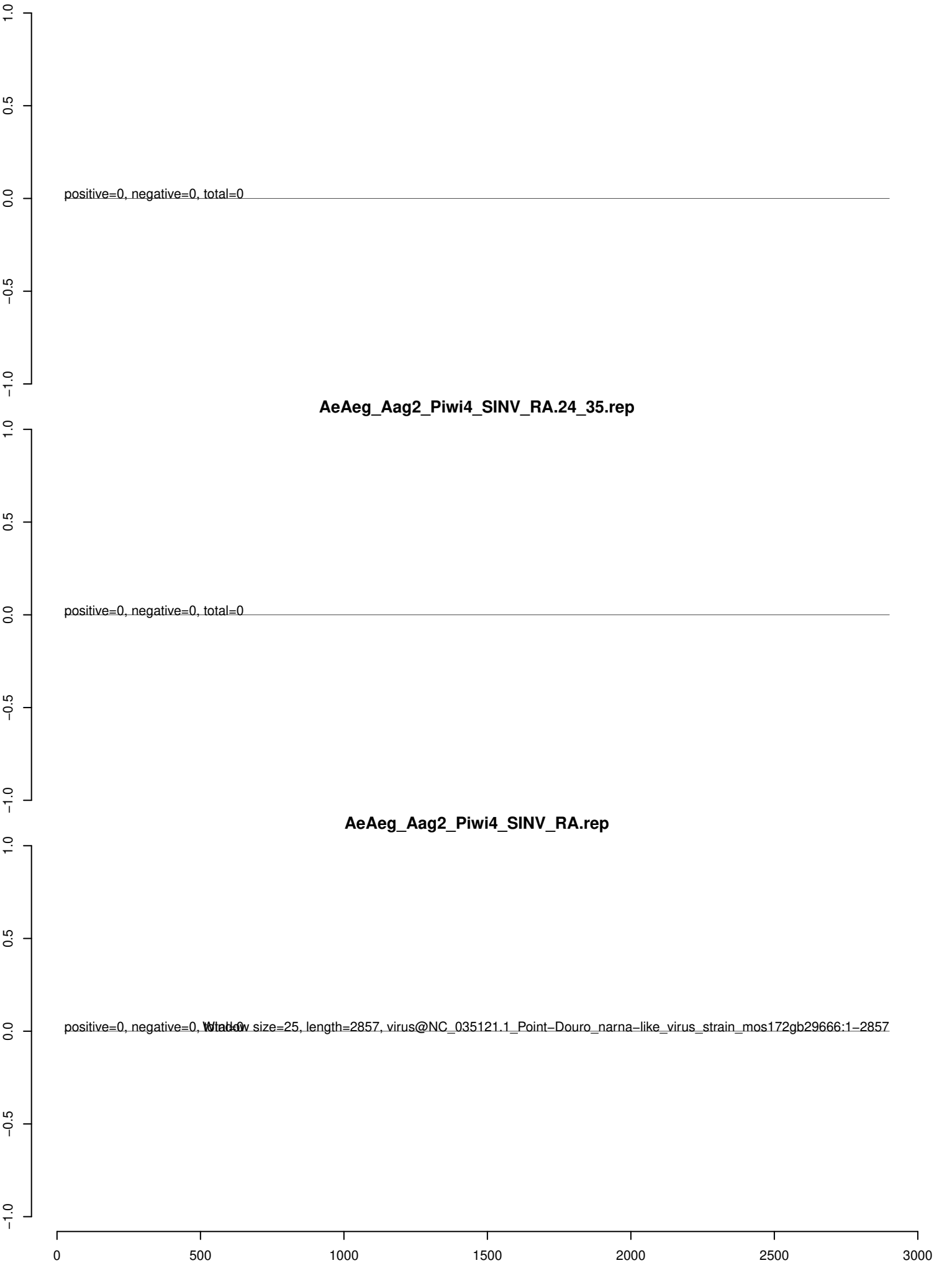
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



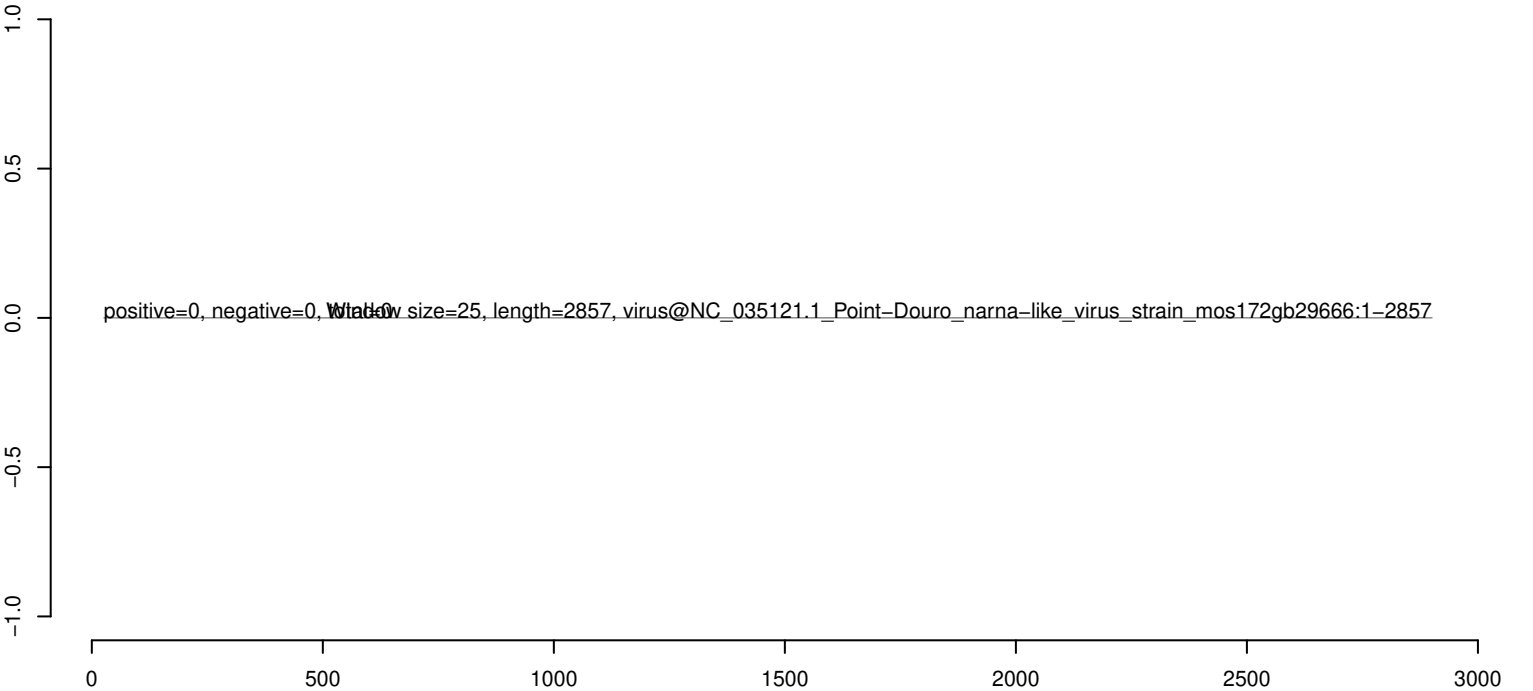
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**





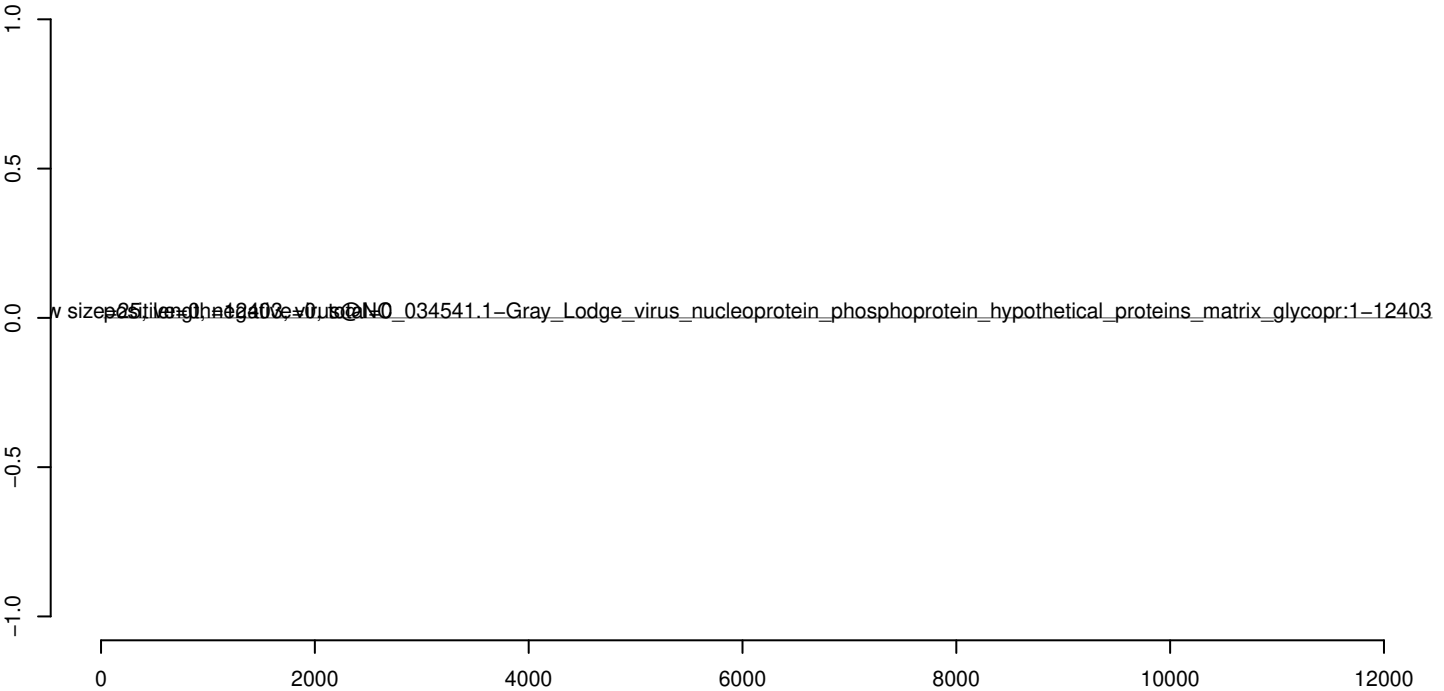
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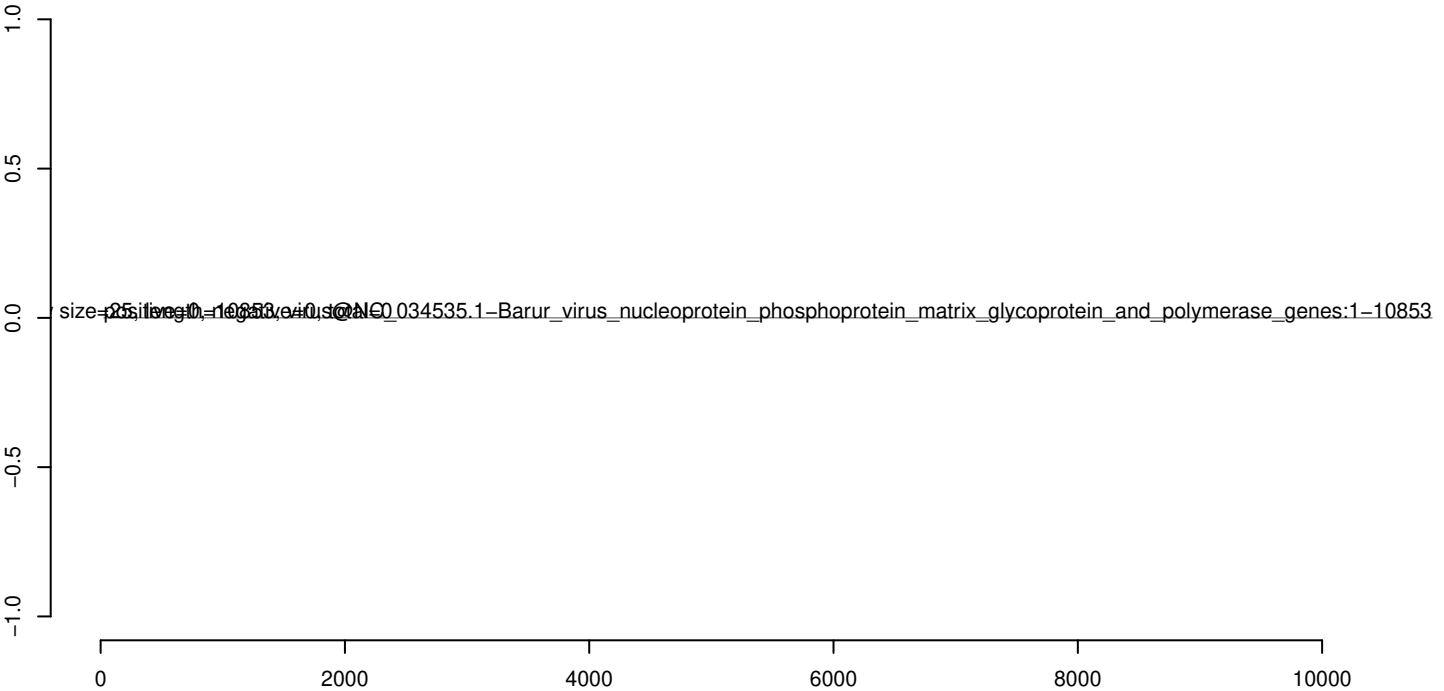
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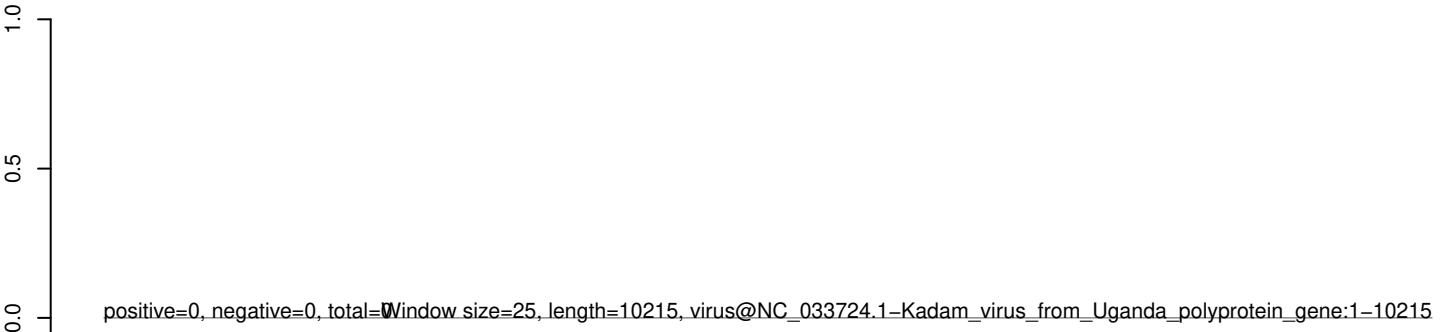
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



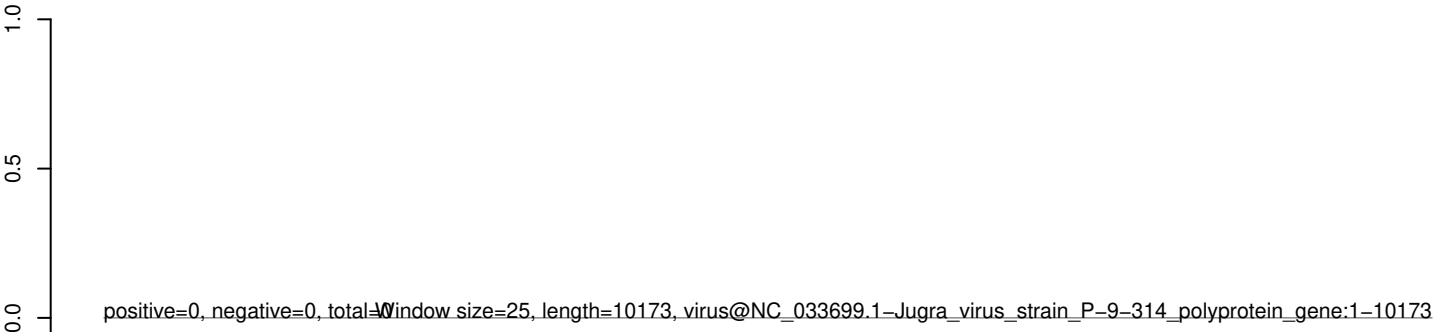
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



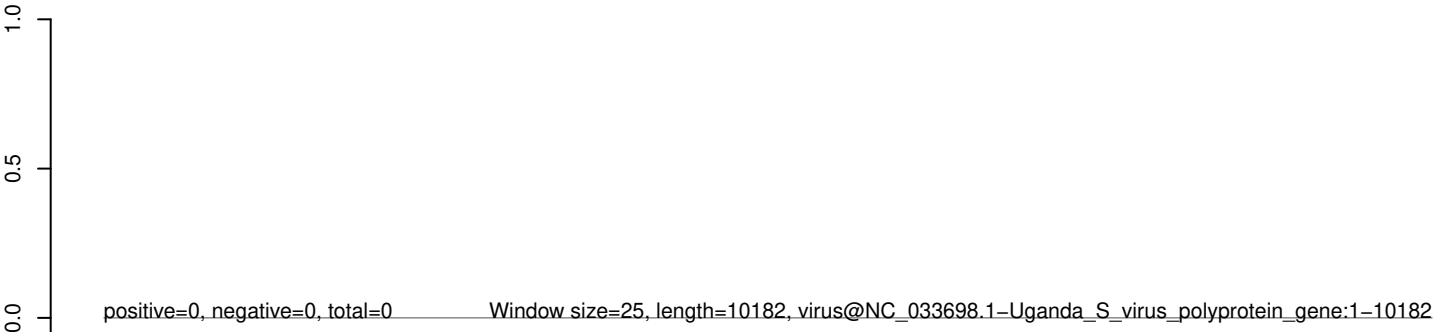
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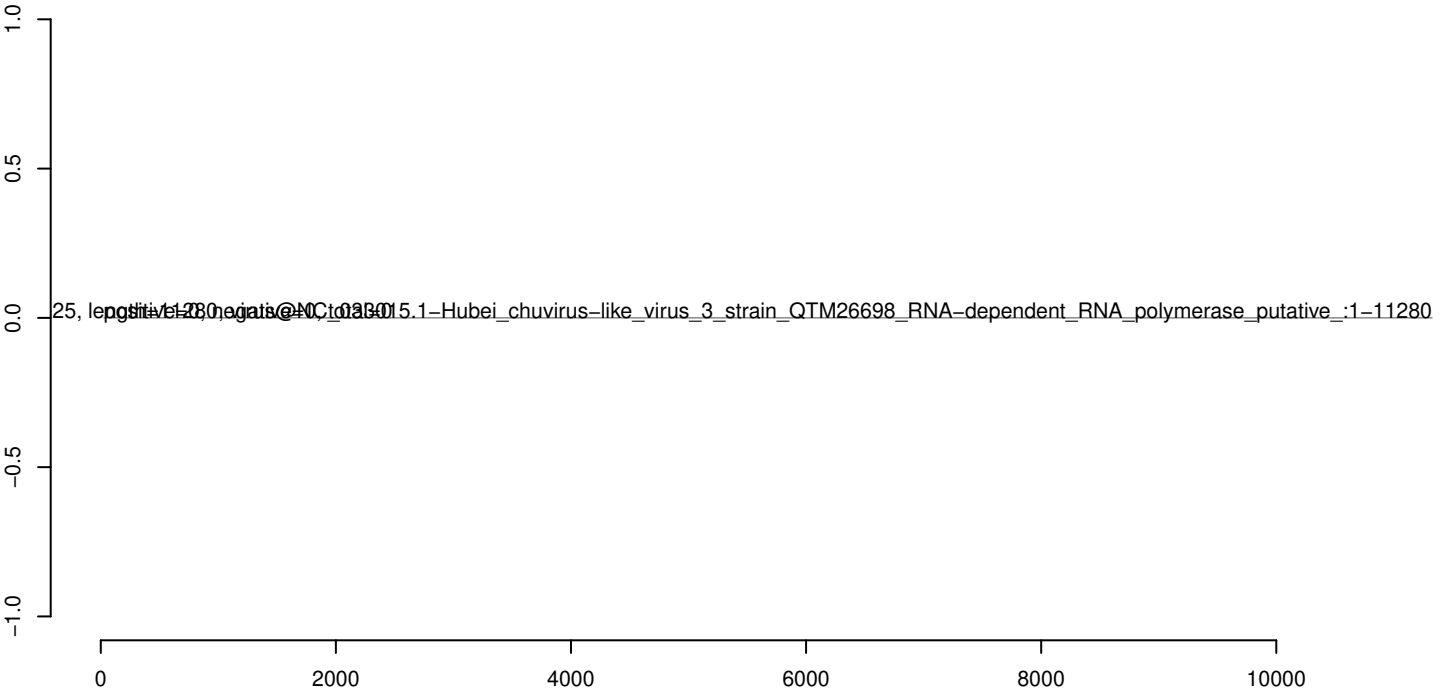
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



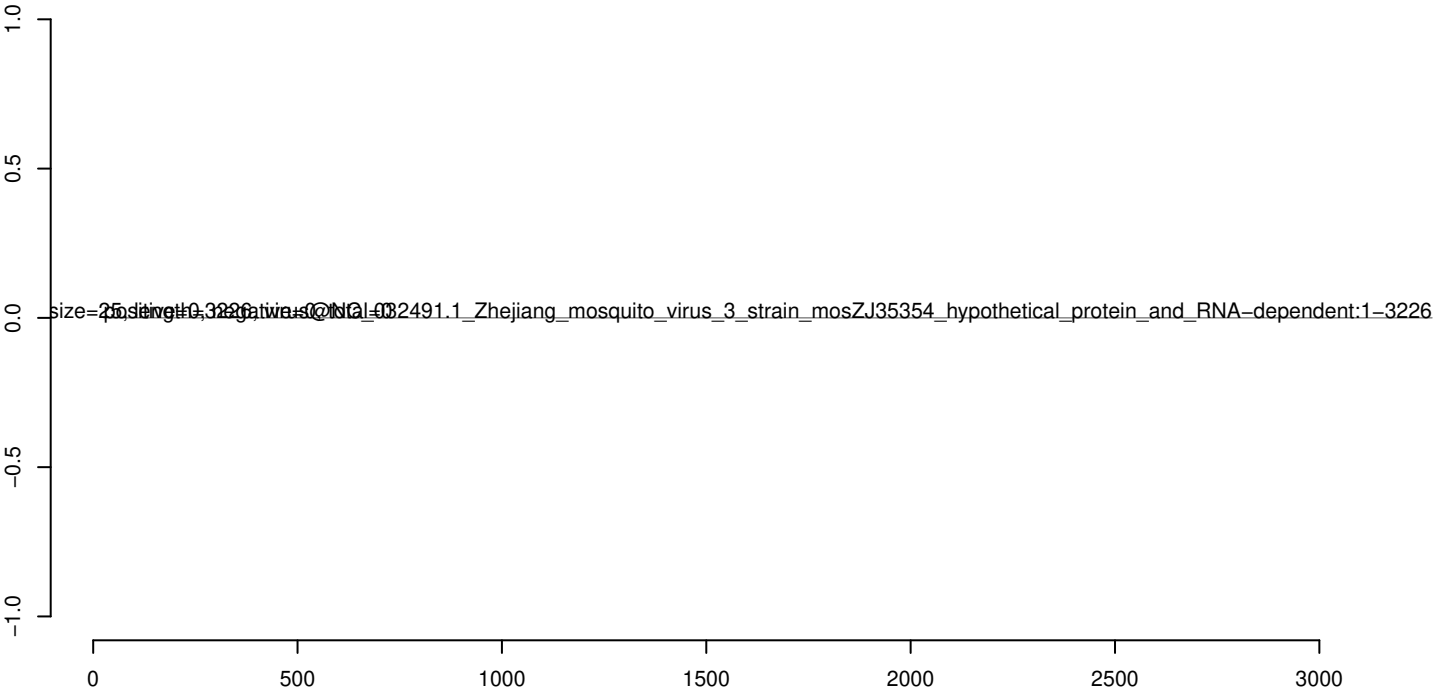
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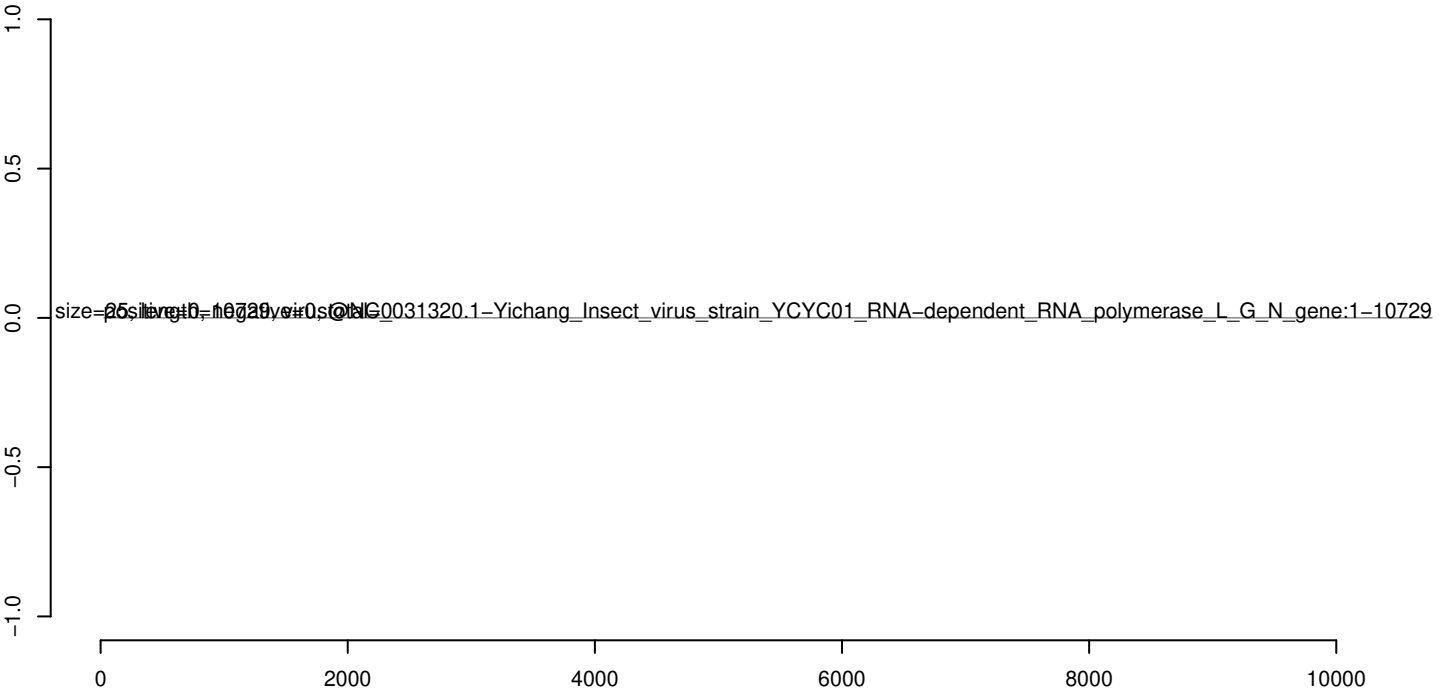
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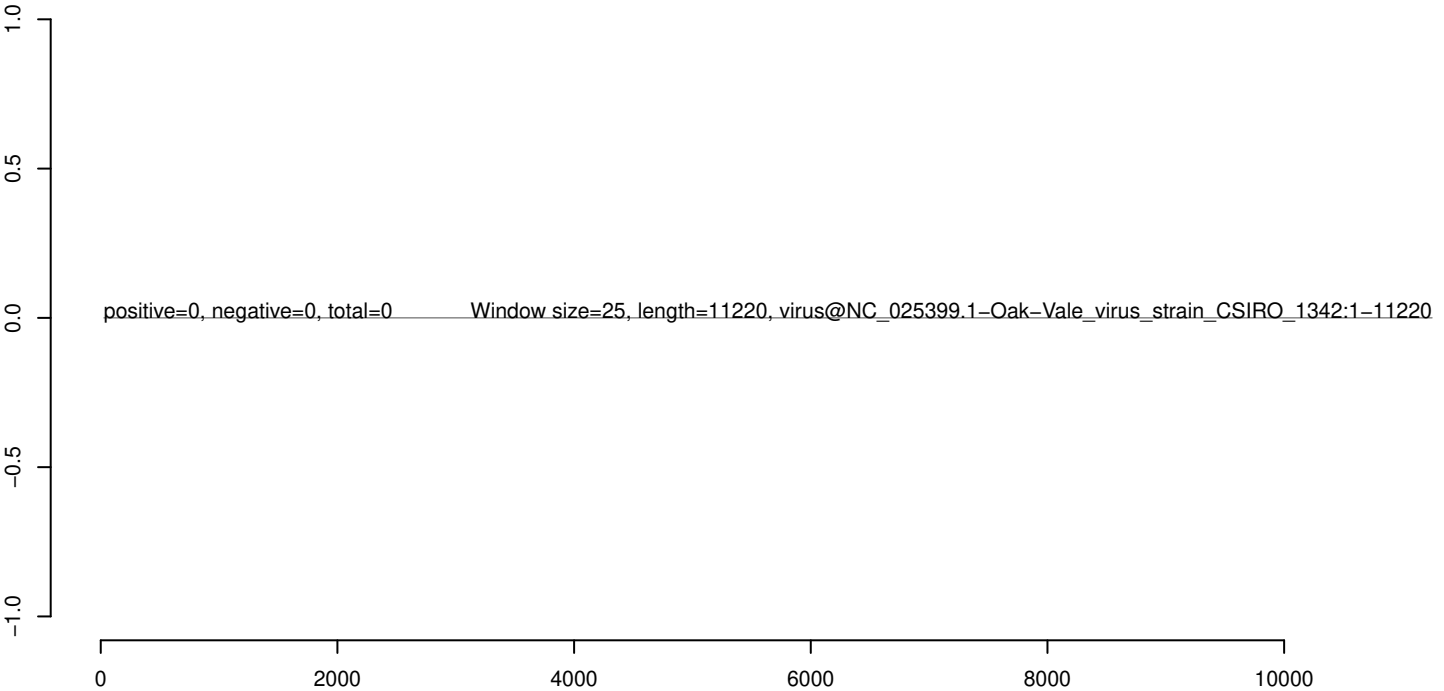
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



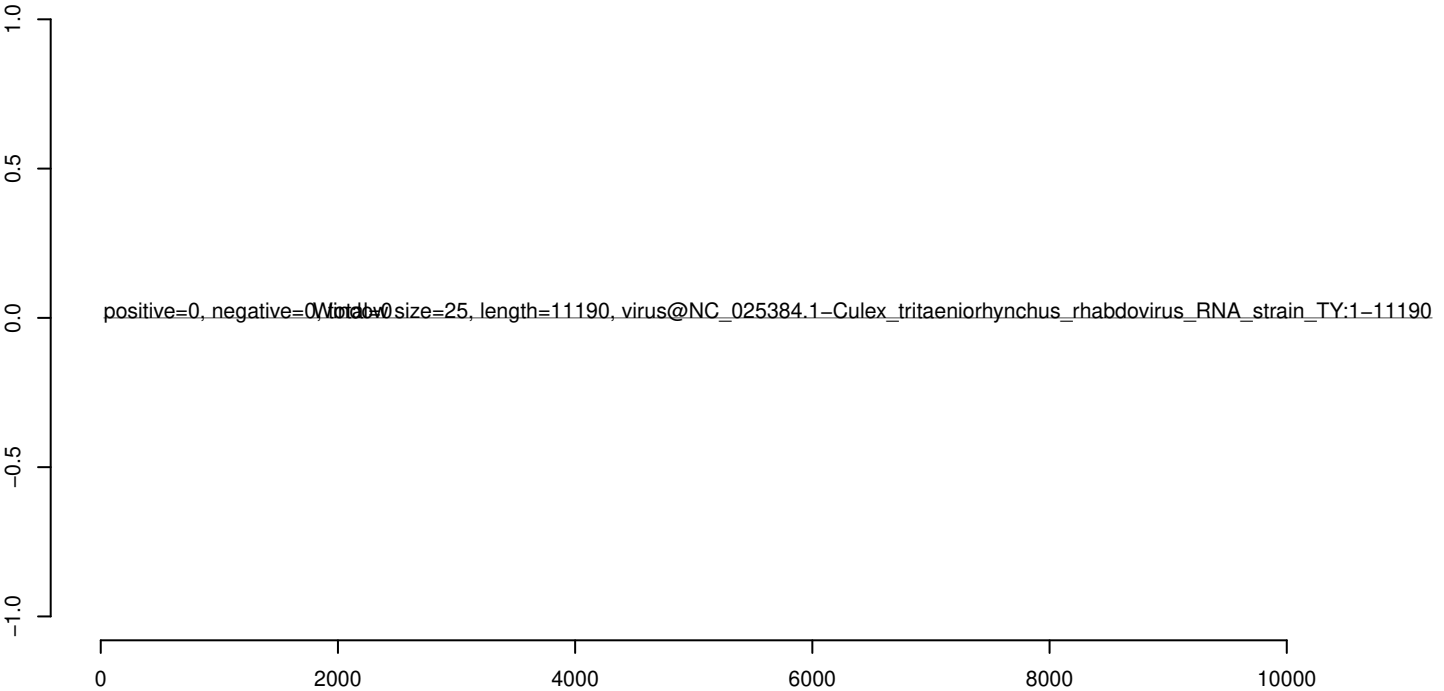
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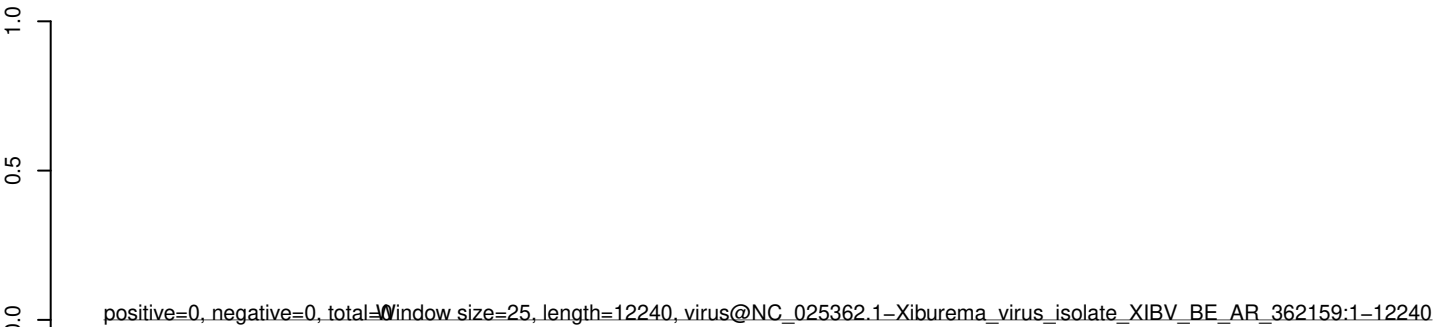
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



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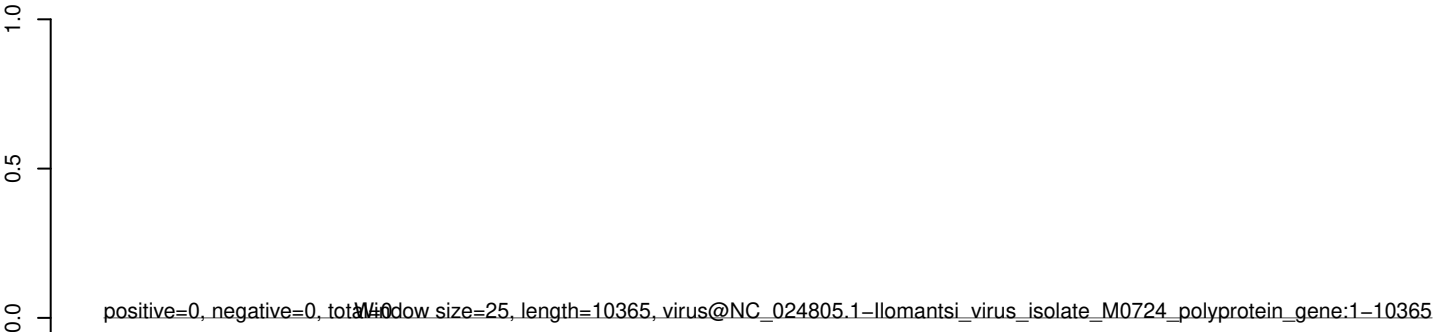
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



0 2000 4000 6000 8000 10000

**AeAeg\_Aag2\_Piwi4\_SINV\_RA.18\_23.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.24\_35.rep**



**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



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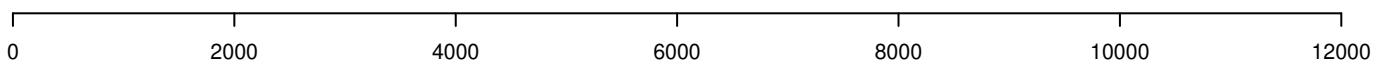
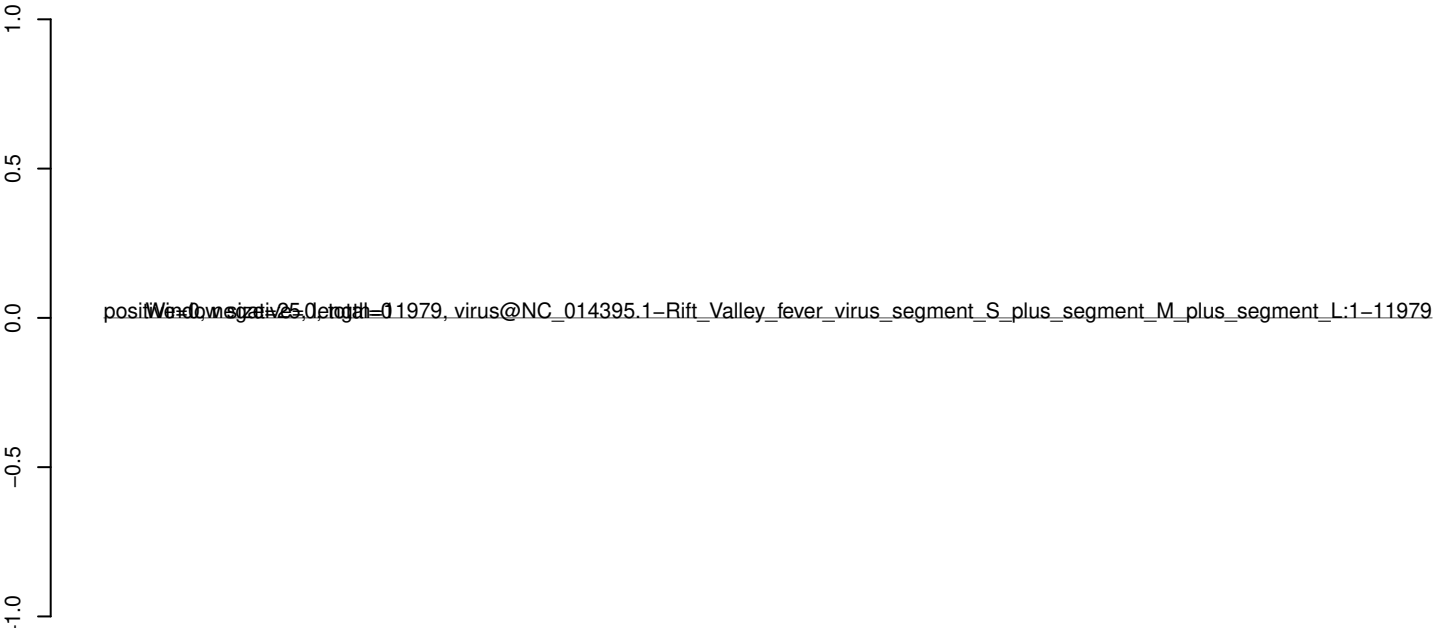
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



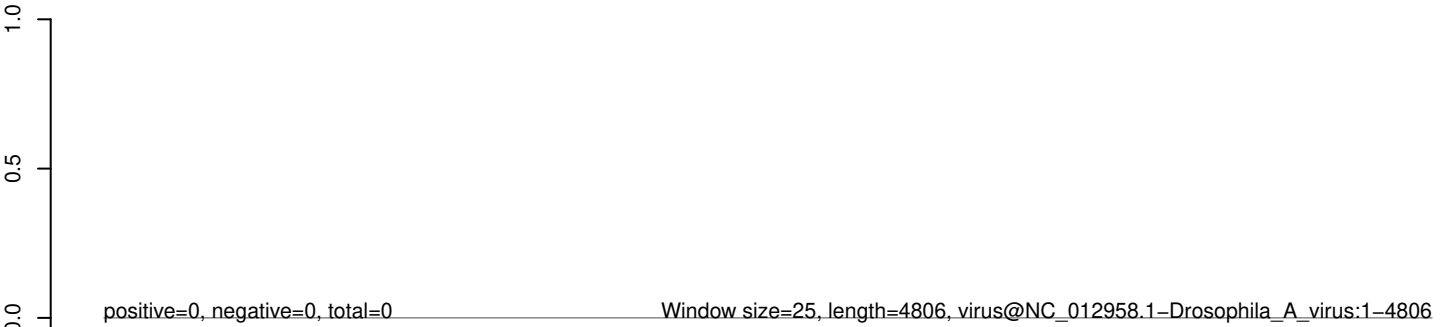
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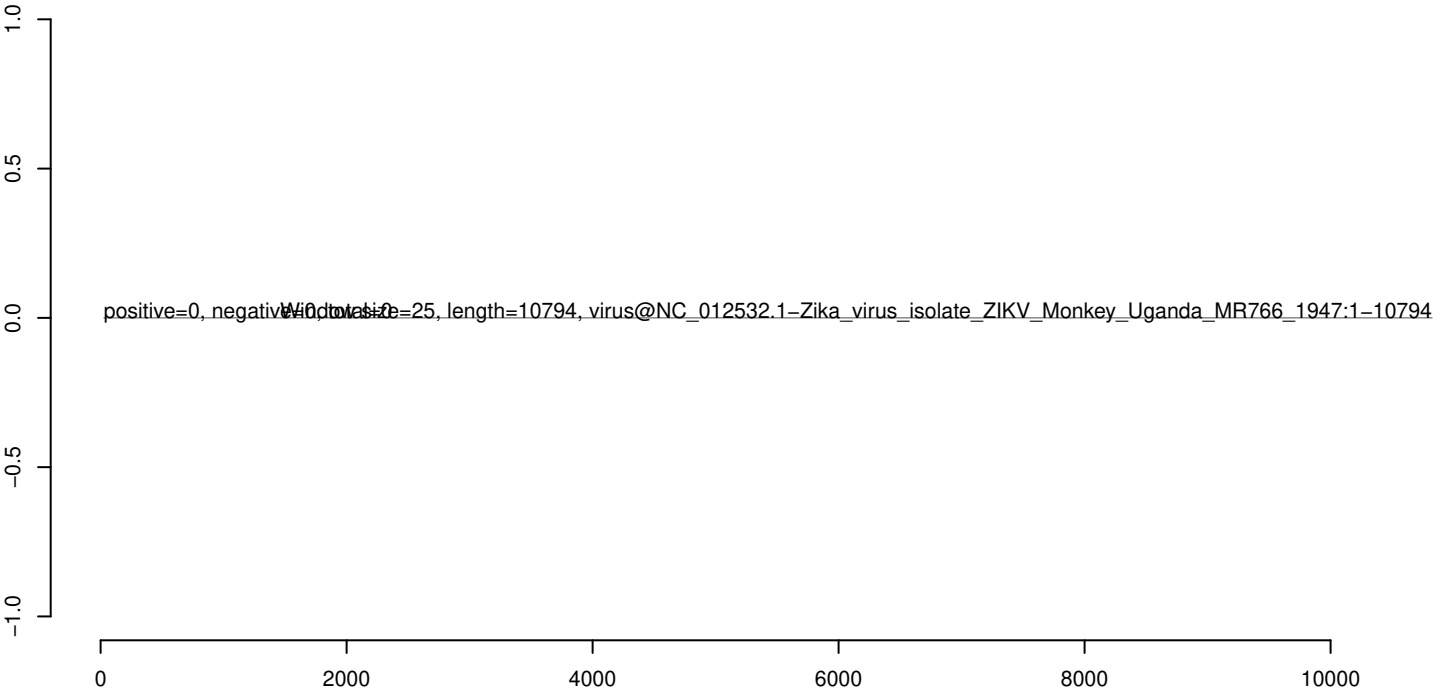
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**





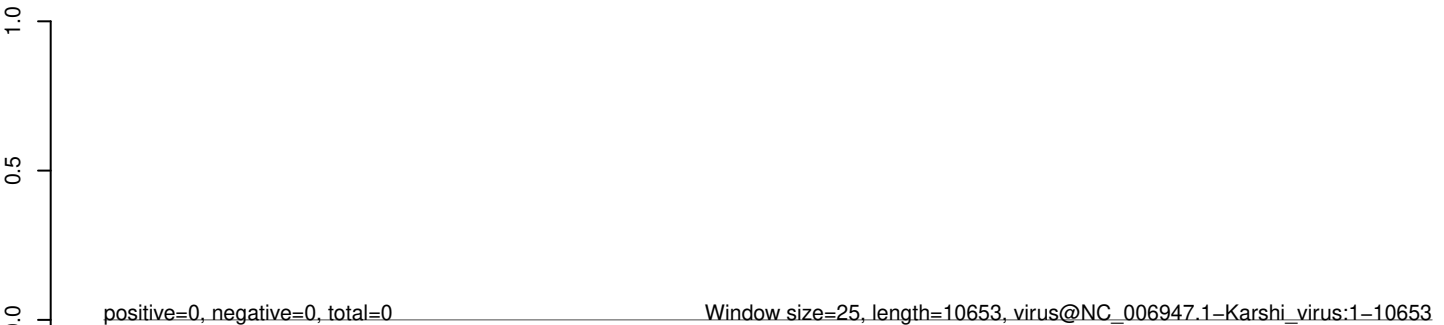
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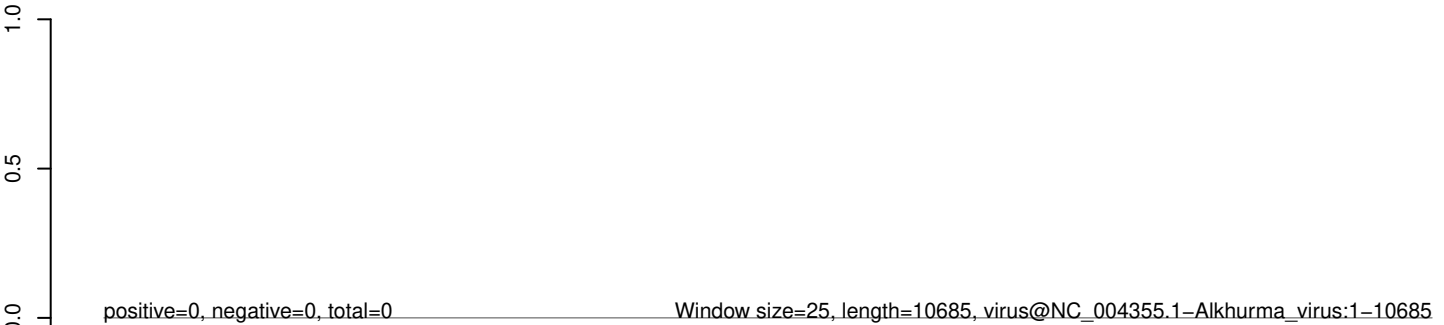
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



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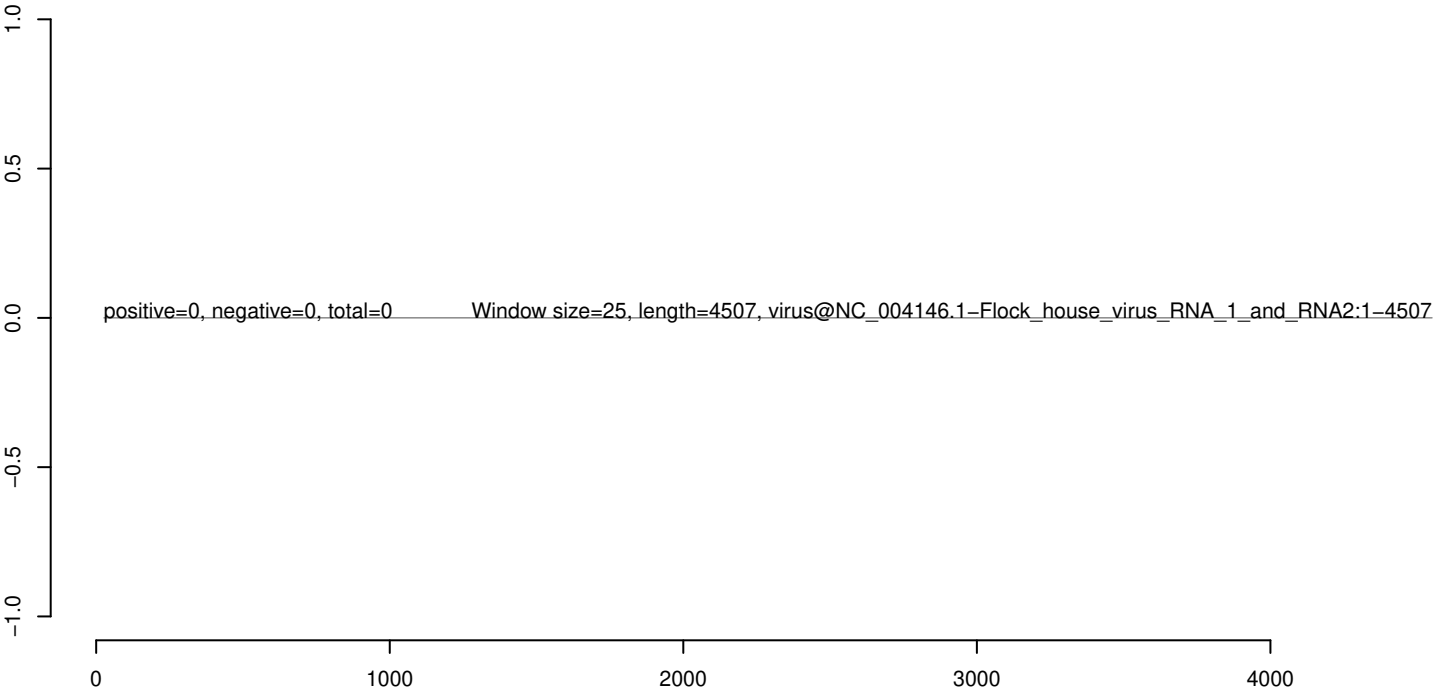
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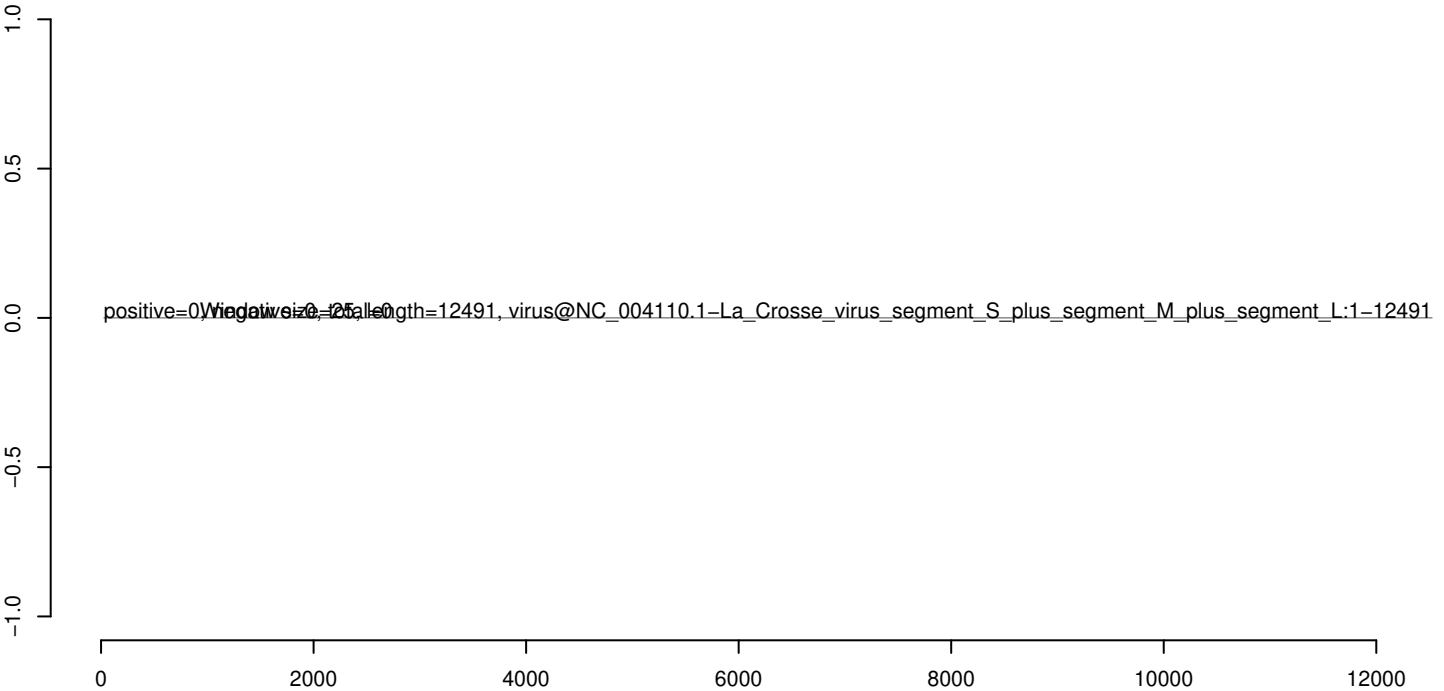
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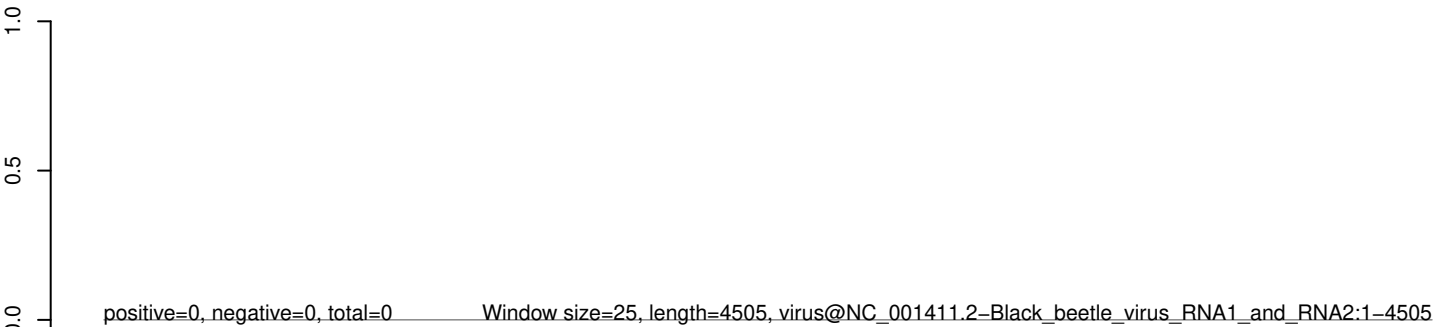
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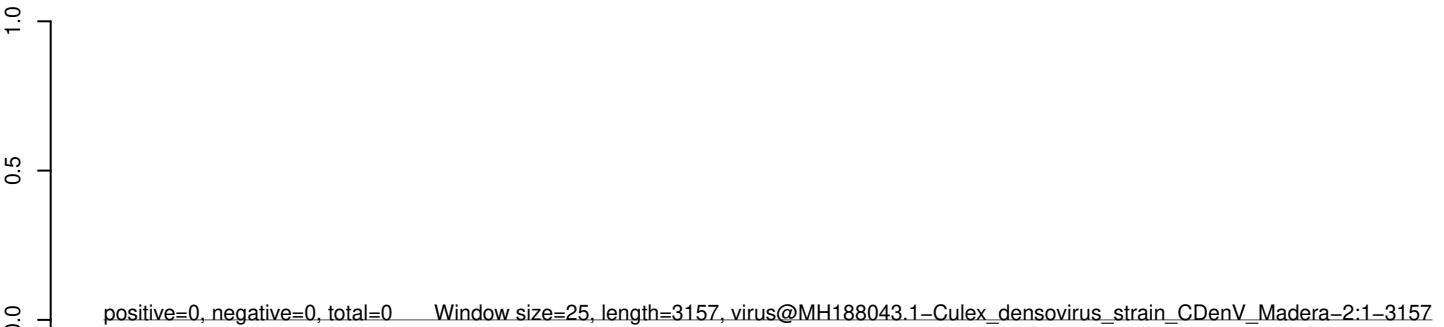
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



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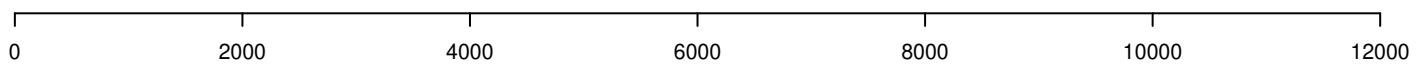
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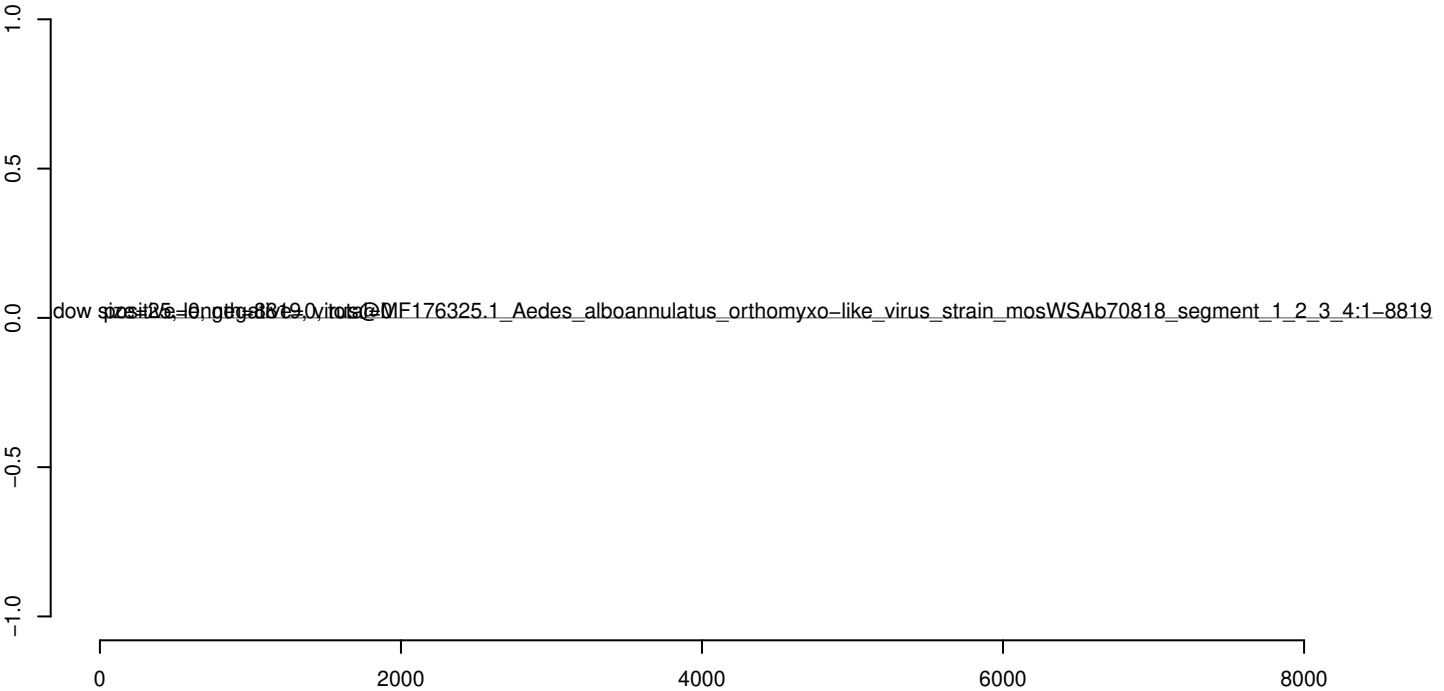
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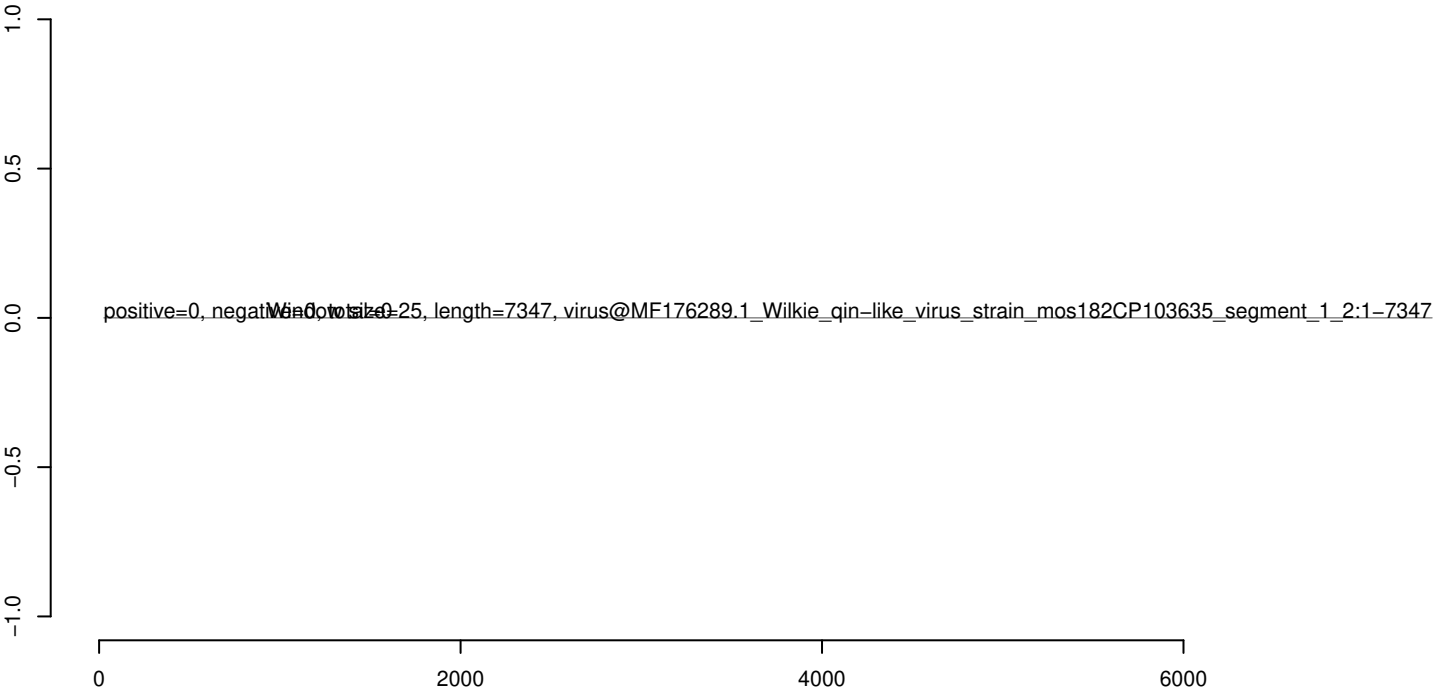
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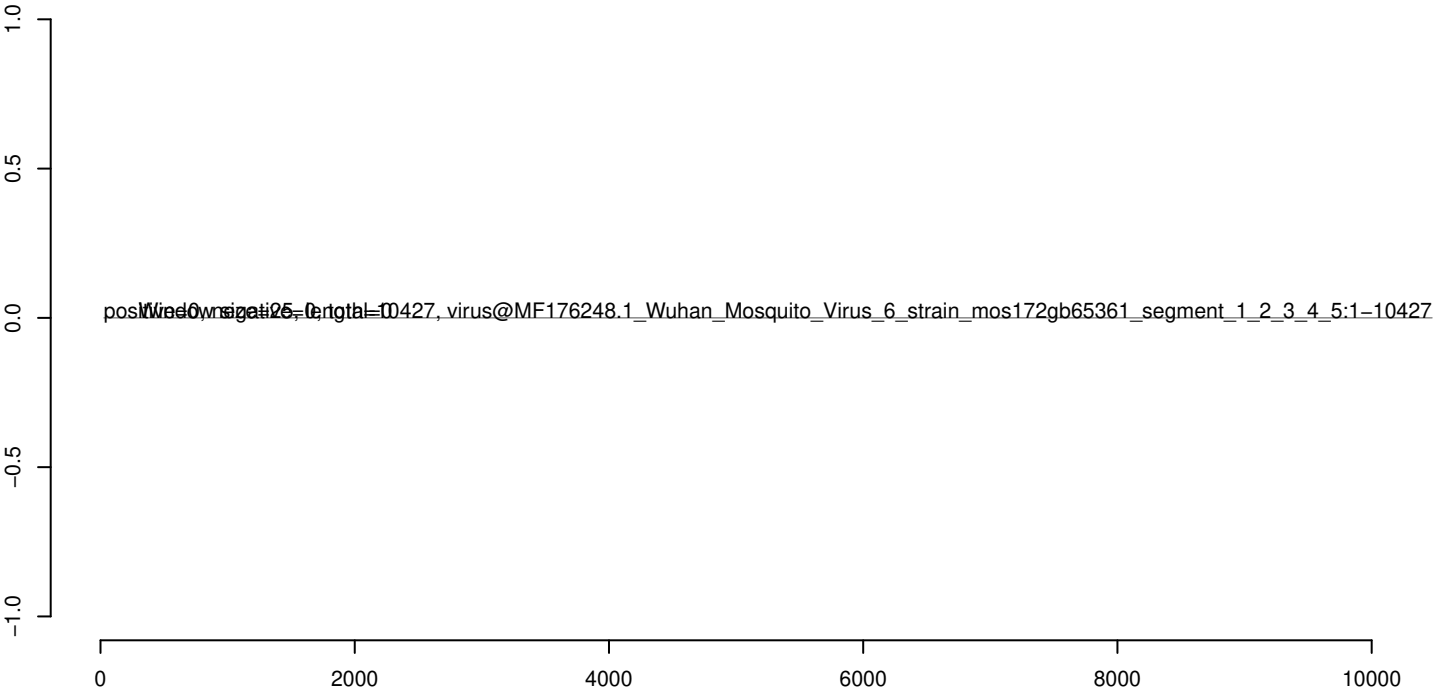
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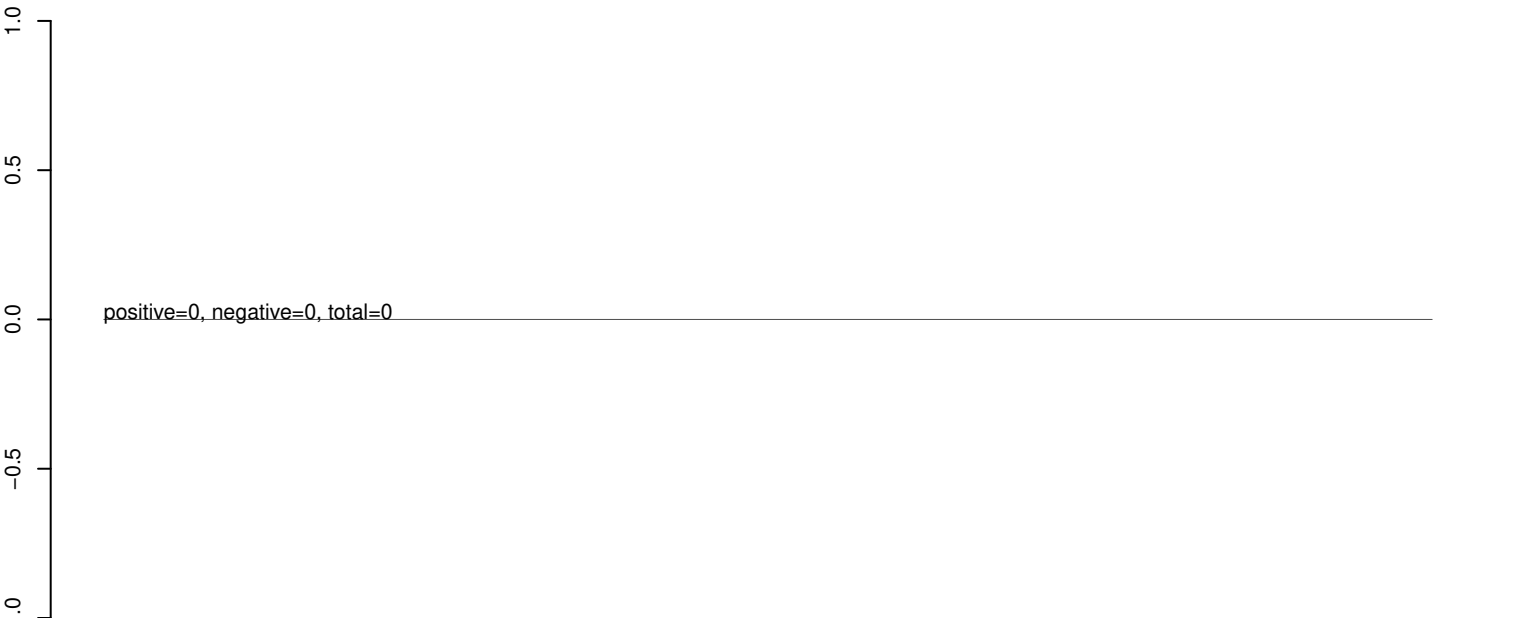
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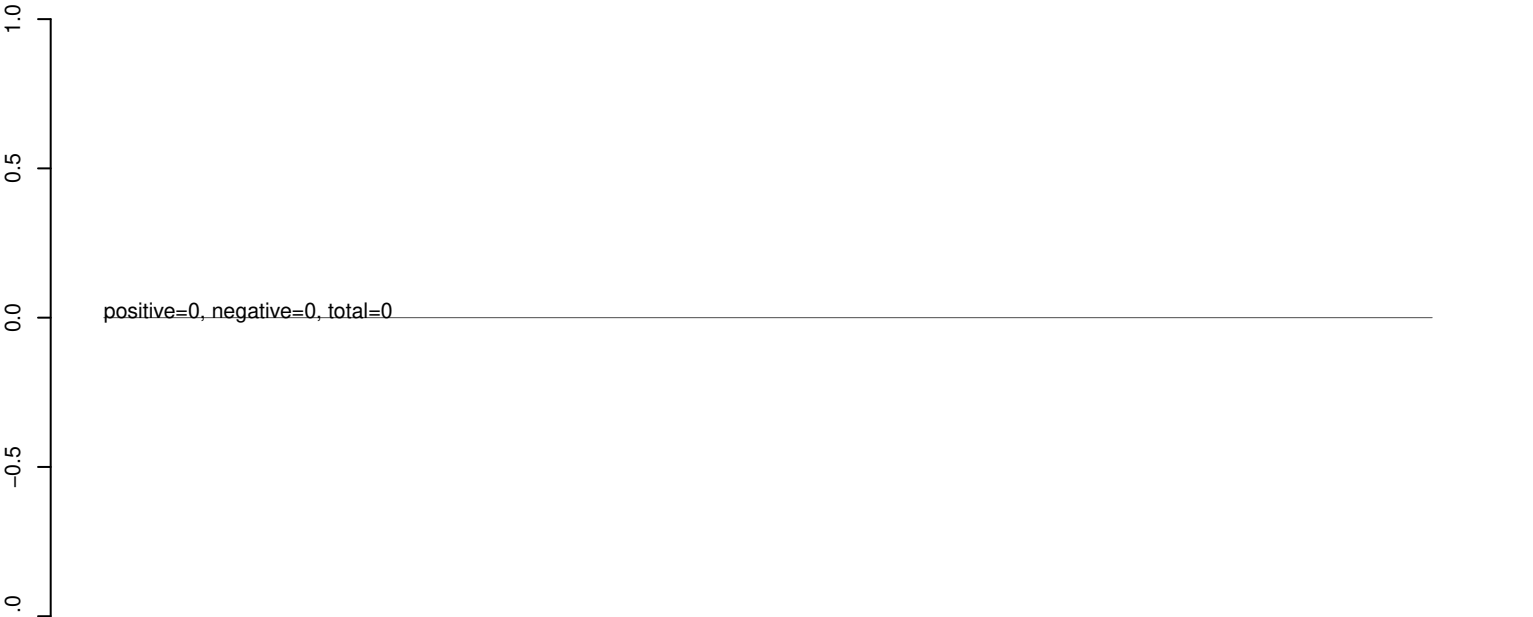
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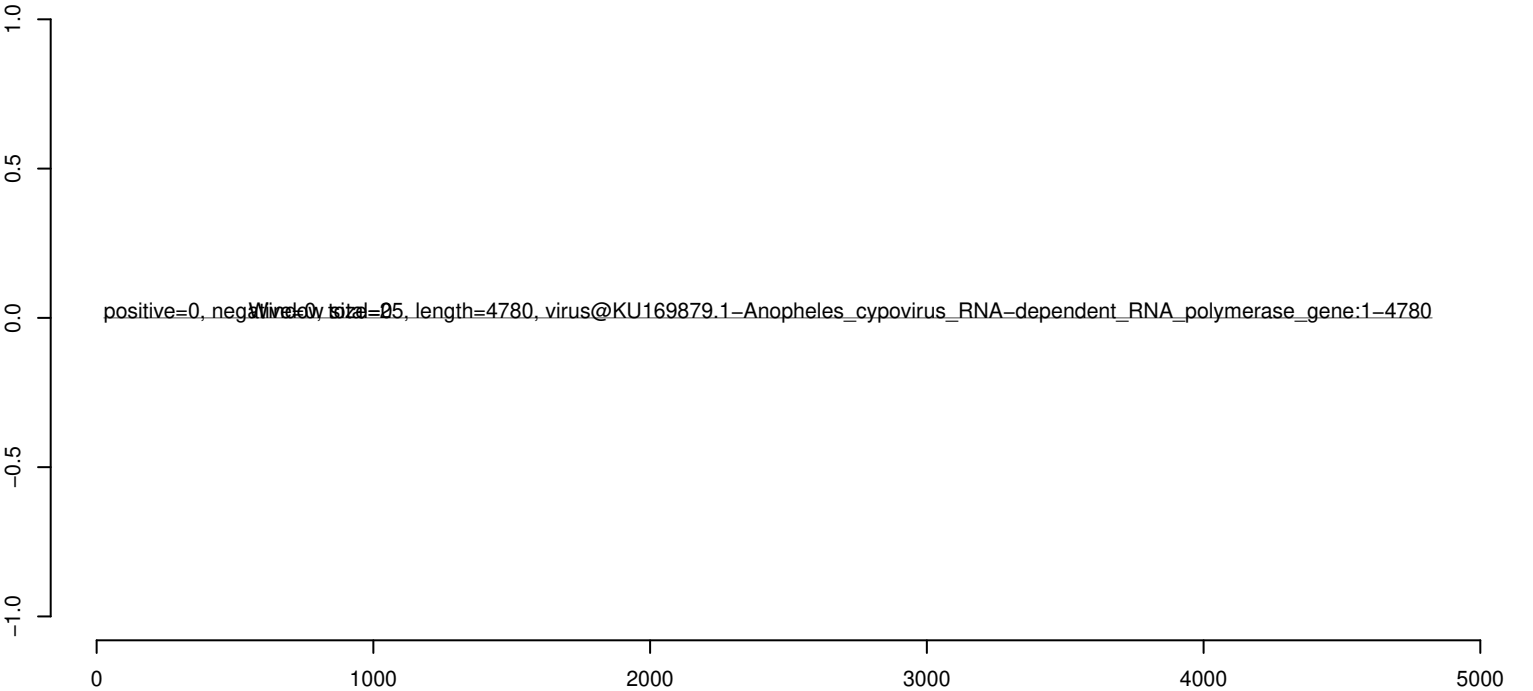
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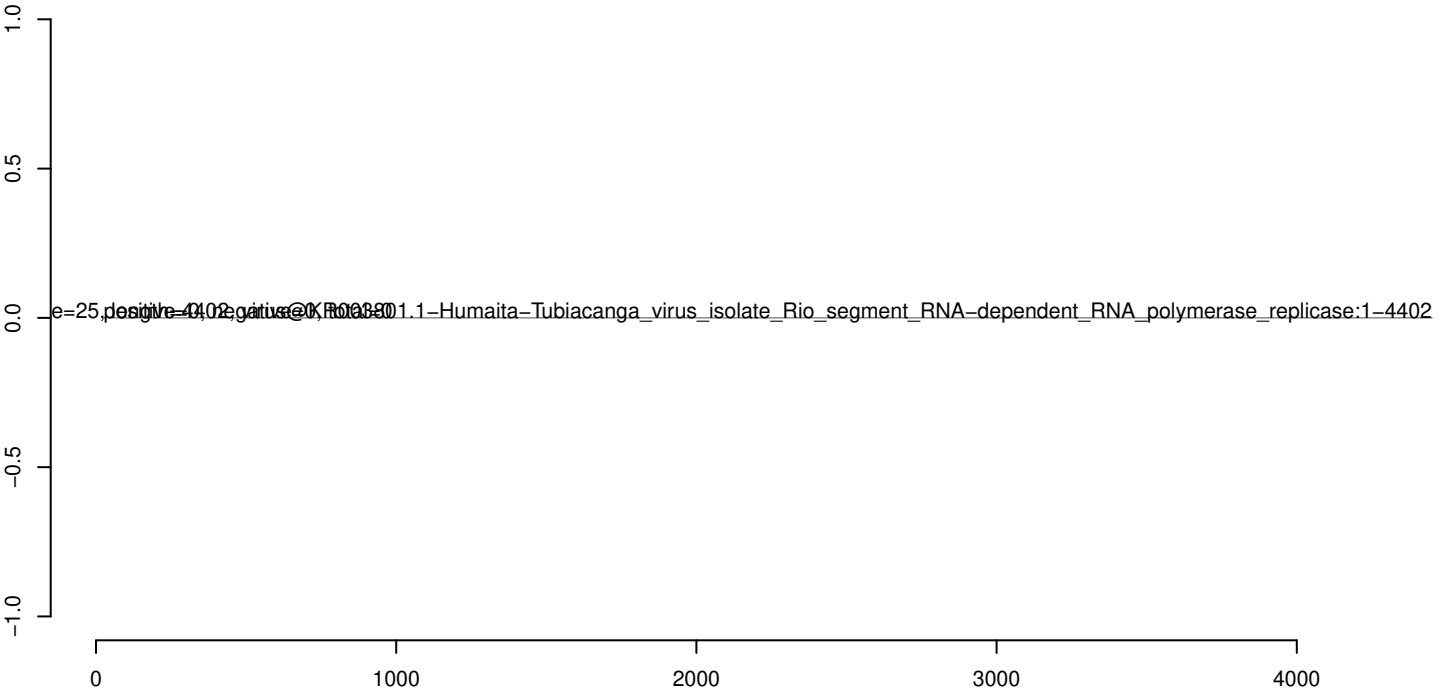
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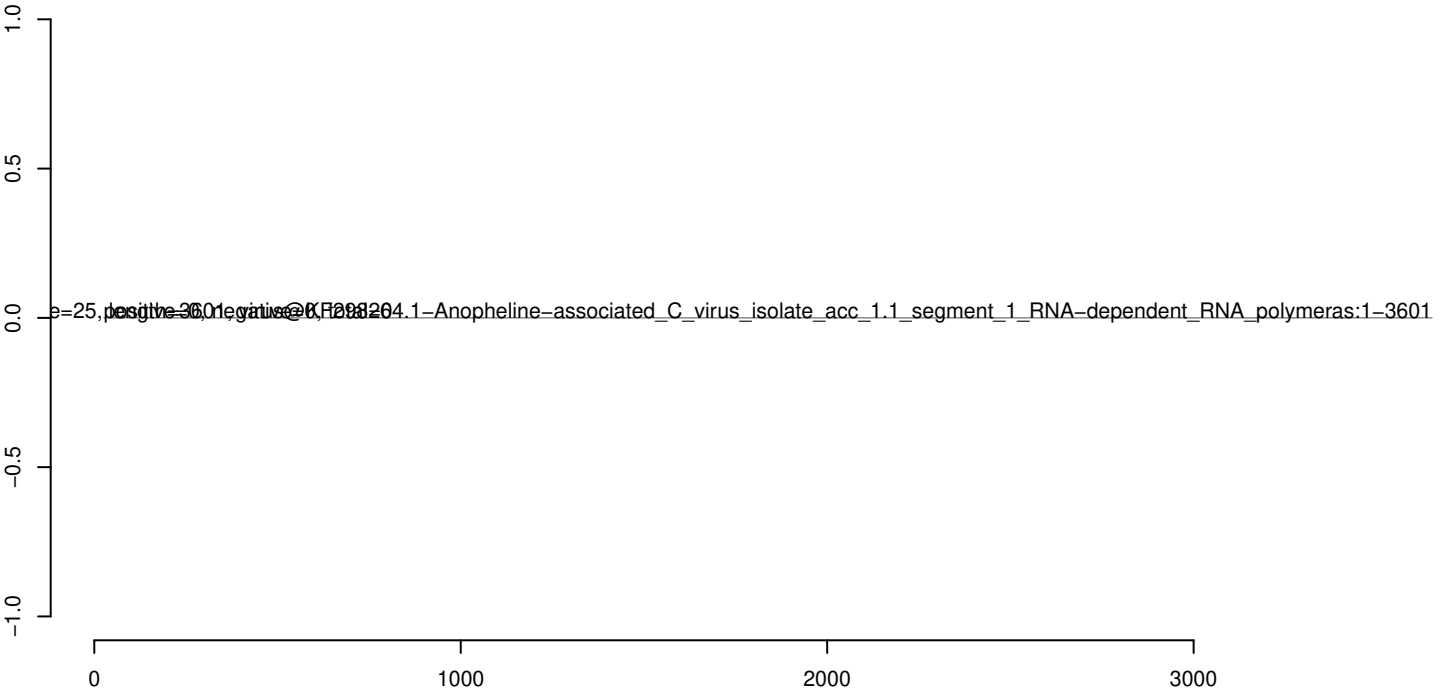
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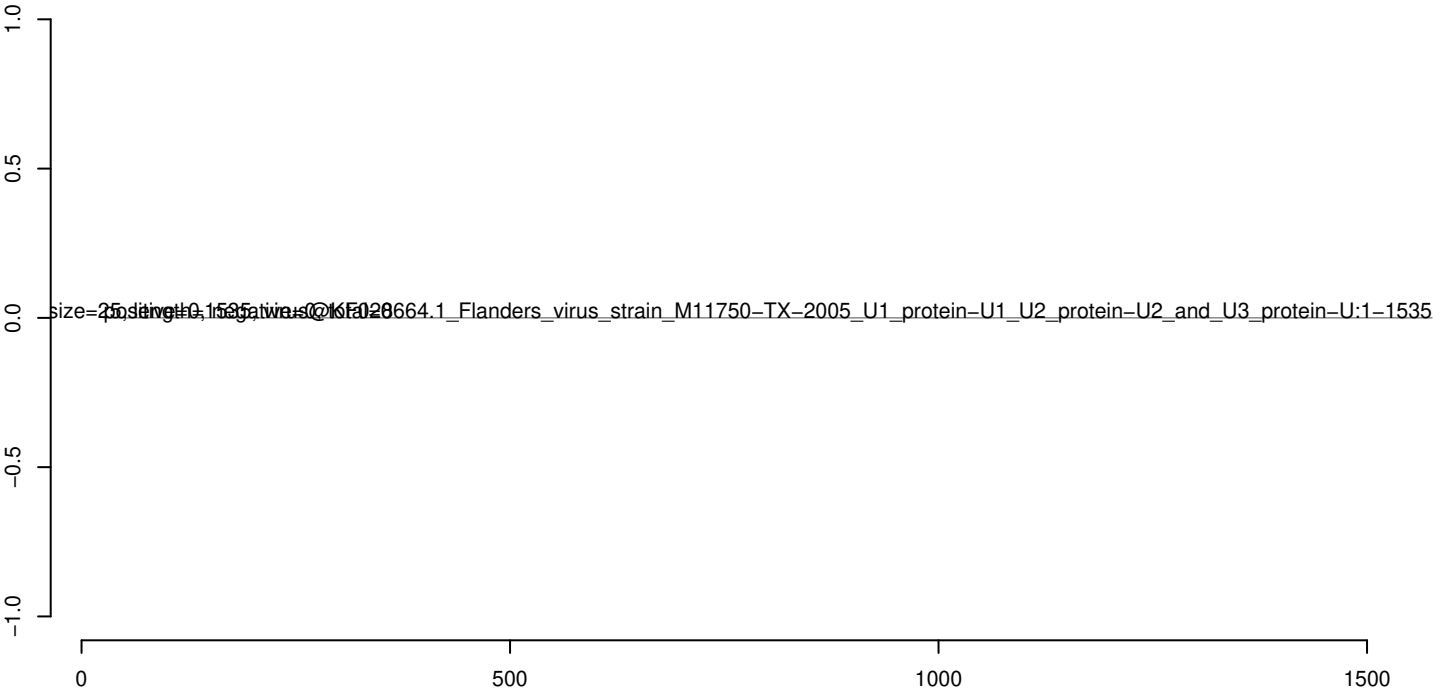
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**



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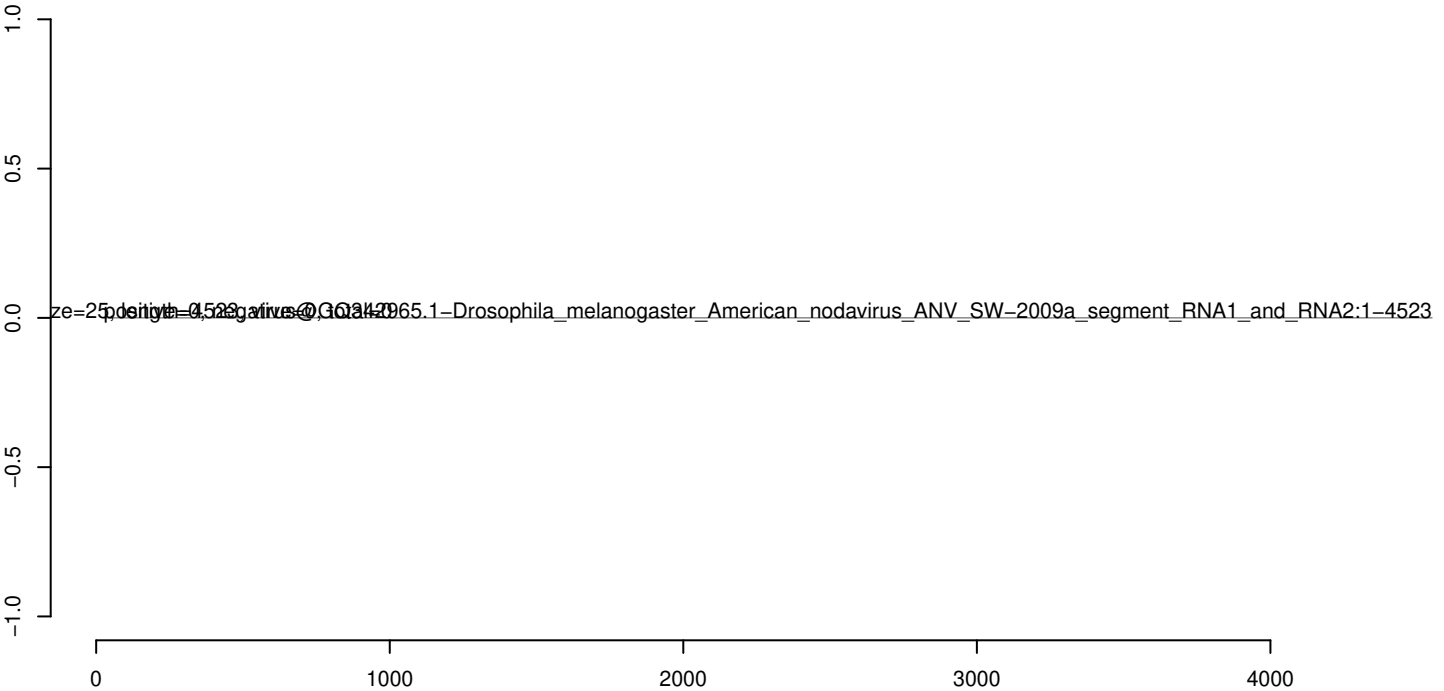
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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**





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**AeAeg\_Aag2\_Piwi4\_SINV\_RA.rep**

