**Table S3:** Significant genomic coordinates provided by each algorithm for each gene with high algorithm overlap. Blank cells indicate that significant events were not found at that gene. \*Upstream and Downstream exon coordinates are not listed for rMATS.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Gene with Significant Splicing Event(s)** | **Chromosome** | **edgeR**  **Coordinates** | **Leafcutter**  **Coordinates** | **OutSplice**  **Coordinates** | **psichomics**  **Coordinates** | **rMATS** | **Whippet**  **Coordinates** |
| ECM1 | 1 |  | 150511198-150512352 | 150511198-150511457 | SE\_1\_+\_150511198\_150511457\_150511831\_150512352\_ECM1  A5SS\_1\_+\_150511198\_150511831\_150512352\_ECM1 | 150511456-150511831 | 150511457-150511831 |
| COL6A3 | 2 | 237378636-237379235 | 237377344-237396727  237396847-237425219 |  | SE\_2\_-\_237380915\_237379235\_237378636\_237377344\_COL6A3 | 237378635- 237379235  237387581- 237388184  237380914- 237381499  237394586-237395204 | 237378636-237379235 |
| KIAA1217 | 10 | 24466531-24466790  24449433-24449764  24494500-24494604 | 24474060-24495147  24438479-24473228  24533237-24544981 |  | SE\_10\_+\_24474060\_24494500\_24494604\_24495147\_KIAA1217  AFE\_10\_+\_24255596\_24239337\_24380869\_KIAA1217 | 24494499-24494604  24536773-24536893  24544980-24547843  24473227-24474060  24495146-24495196  24501378-24501545  24542692-24542770  24542882-24544481 | 24494500-24494604 |
| HDAC9 | 7 | 18509313-18509446  18509273-18509446 | 18496324-18585281  18495854-18496262 |  | AFE\_7\_+\_18509446\_18496324\_18585281\_HDAC9 | 18543168-18543674  18502580-18502639 | 18086949-18087023 |
| MBNL1 | 3 | 152244321-152244440  152446704-152446757  152243828-152244040 | 152445539-152447725  152244440-152414941  152447773-152459271 |  | SE\_3\_+\_152445539\_152446704\_152446757\_152447620\_MBNL1  SE\_3\_+\_152447773\_152455542\_152455577\_152456267\_MBNL1 | 152299404-152300367  152335110-152335230  152446703-152446757  152455541-152455577  152456266-152456361  152432716-152432920  152447619-152447773  152447724-152447773  152459270-152459345 | 152446704-152446757 |
| VPS39 | 15 | 42192066-42192098 | 42191560-42199896 |  | SE\_15\_-\_42199896\_42192098\_42192066\_42191560\_VPS39 | 42192065-42192098 | 42162558-42162672  42162482-42162557 |
| PLEKHG1 | 6 | 150632943-150633304 | 150650786-150733584  150600017-150650728 | 150721286-150733584 | SE\_6\_+\_150600017\_150638080\_150638125\_150650728\_PLEKHG1 | 150638079-150638125  150650727-150650786  150733583-150734092 | 150599883-150599884 |
| ITGB4 | 17 | 75755055-75755213 | 75754815-75756429  75737444-75739880  75724782-75727195 | 75757310-75757416 | SE\_17\_+\_75754815\_75755055\_75755213\_75755701\_ITGB4 | 75739671- 75739705  75755054- 75755213 | 75755055-75755213 |
| PTPN6 | 12 | 6946610-6946739  6946574-6946739  6946577-6946739  6946710-6946739  6946468-6946739 | 6946739-6952113 |  | SE\_12\_+\_6946739\_6951464\_6951520\_6951609\_PTPN6  AFE\_12\_+\_6951520\_6946739\_6951609\_PTPN6 | 6951458-6951520  6951463-6951520  6951608-6952177  6951608-6951731  6951911-6952177  6951982-6952177  6952016-6952177  6951608-6951731 | 6951459-6951463 |
| MTMR1 | X | 150712342-150712365 | 150699300-150727215 |  | SE\_X\_+\_150699300\_150712342\_150712365\_150718625\_MTMR1 | 150712341-150712365  150718624-150718700  150699202-150699300 | 150712342-150712365 |
| PARD3 | 10 | 34426685-34426731 | 34360259-34377967  34331344-34337365  34269899-34317107 |  | SE\_10\_-\_34374874\_34372536\_34372498\_34360259\_PARD3  A5SS\_10\_-\_34337365\_34337278\_34336243\_PARD3 | 34372497-34372536  34374873-34375002  34384128-34384254  34696317-34696419  34470084-34470263  34516978-34517159  34337274-34337426  34337364-34337426  34336198-34336243  34337277-34337426 | 34678861-34679686 |
| NUMA1 | 11 | 72065199-72068231 | 72035975-72080458 |  | AFE\_11\_-\_72041823\_72069842\_72035975\_NUMA1 | 72007188-72008845  72029204-72029290  72035901-72035975 | 72070088-72070093 |
| RABGAP1L | 1 | 174877392-174877605  174877440-174877605  174875546-174875713 | 174252590-174275833  174221164-174241483  174957549-174969277  174811960-174957457 | 174239314-174241483 | SE\_1\_+\_174957549\_174957891\_174958173\_174969277\_RABGAP1L | 174877391-174877605  174957890-174958173 |  |
| MDM2 | 12 | 68809024-68809086  68809017-68809086  68809002-68809086  68808282-68808491  68808383-68808491  68808273-68808491  68808464-68808491  68808177-68808491  68808191-68808491 | 68808480-68809208 | 68843832-68843934 | SE\_12\_+\_68808491\_68809016\_68809086\_68809208\_MDM2  AFE\_12\_+\_68809086\_68808491\_68809208\_MDM2 | 68816811-68816945  68835828-68835843  68828770-68828931 |  |
| MCM7 | 7 | 100100213-100100757  100100213-100100780  100100213-100100869  100100213-100100473 | 100100093-100101264 | 100100093-100100213 | AFE\_7\_-\_100100213\_100101264\_100100093\_MCM7 | 100099022-100099403  100099022-100099753 |  |
| MEI1 | 22 | 41723943-41724073  41703331-41703454  41718071-41718274  41730521-41730637  41714002-41714075  41729665-41729779  41705504-41705554  41732469-41732603  41731056-41732344  41748107-41748218  41732245-41732344  41745885-41746026  41716041-41716146  41743080-41743194  41744973-41745064  41699503-41699712  41699514-41699712  41781446-41781845  41781399-41781845  41781351-41781845  41781685-41781845 | 41732603-41758365  41781845-41793829  41794477-41795735 | 41701854-41703331  41705554-41712993  41713138-41714002  41724073-41727820  41729779-41730552  41731513-41744330  41744474-41744797 | SE\_22\_+\_41781845\_41784339\_41784420\_41793829\_MEI1  SE\_22\_+\_41781845\_41784608\_41784783\_41793829\_MEI1 | 41784338-41784420 |  |
| FCGR2B | 1 | 161675257-161675313 | 161671649-161672975  161673229-161673960 | 161674073-161675257 | SE\_1\_+\_161674073\_161675257\_161675313\_161677328\_FCGR2B | 161675256-161675313  161673959-161677365 |  |