

Supplementary Table 2. Complete gene list from pilot and validation data sets.

Criteria Met in Pairwise Comparisons

Gene	Event	Pilot	Pilot %	Validation	Validation %	Total	Average %
NUMA1	chr11:71723941:71727306:-@chr11:71723447:71723488:-@chr11:71721832:71721900:-	12	100%	44	100%	56	100%
PPFIBP1	chr12:27829361:27829532:+@chr12:27829997:27830029:+@chr12:27832422:27832572:+	12	100%	44	100%	56	100%
SYNE1	chr6:152469180:152469513:-@chr6:152466622:152466690:-@chr6:152464758:152464900:-	12	100%	43	98%	55	99%
MBNL1	chr3:152163071:152163328:+@chr3:152164493:152164546:+@chr3:152165409:152165562:+	11	92%	44	100%	55	96%
ITGA6	chr2:173362703:173362828:+@chr2:173366500:173366629:+@chr2:173368819:173371181:+	12	100%	37	84%	49	92%
BZRAP1	chr17:56387328:56387519:-@chr17:56385902:56386741:-@chr17:56385203:56385302:-	12	100%	36	82%	48	91%
FGFR1	chr8:38314874:38315052:-@chr8:38287200:38287466:-@chr8:38285864:38285953:-	12	100%	36	82%	48	91%
EXOC1	chr4:56749989:56750094:+@chr4:56755054:56755098:+@chr4:56756389:56756552:+	12	100%	34	77%	46	89%
MBNL2	chr13:97999058:97999321:+@chr13:98009050:98009103:+@chr13:98009736:98009889:+	9	75%	44	100%	53	88%
ADD3	chr10:111890121:111890244:+@chr10:111892063:111892158:+@chr10:111893084:111895323:+	9	75%	43	98%	52	86%
INF2	chr14:105180540:105181193:+@chr14:105181621:105181677:+@chr14:105185132:105185947:+	12	100%	32	73%	44	86%
KIF13A	chr6:17794480:17794626:-@chr6:17790103:17790141:-@chr6:17788007:17788106:-	10	83%	33	75%	43	79%
SCARB1	chr12:125270903:125271049:-@chr12:125267229:125267357:-@chr12:125262174:125263132:-	12	100%	25	57%	37	78%
CD46	chr1:207958964:207959027:+@chr1:207963598:207963690:+@chr1:207966864:207968861:+	11	92%	27	61%	38	77%
PLEKHM2	chr1:16046229:16046415:+@chr1:16047824:16047883:+@chr1:16051812:16052040:+	9	75%	33	75%	42	75%
VEGFA	chr6:43746626:43746655:+@chr6:43749693:43749824:+@chr6:43752278:43754223:+	9	75%	32	73%	41	74%
GOLGA2	chr9:131036129:131036251:-@chr9:131035064:131035144:-@chr9:131030699:131030803:-	7	58%	39	89%	46	73%
CLASP1	chr2:122204913:122205083:-@chr2:122203025:122203072:-@chr2:122187649:122187753:-	9	75%	31	70%	40	73%
NHSL1	chr6:138768138:138768330:-@chr6:138763120:138763251:-@chr6:138751530:138754817:-	9	75%	31	70%	40	73%

ARVCF	chr22:19959409:19959494:-@chr22:19958739:19958858:- @chr22:19957402:19958266:-	12	100%	20	45%	32	73%
KIF13A	chr6:17772139:17772290:-@chr6:17771345:17771449:- @chr6:17763924:17765177:-	7	58%	38	86%	45	72%
HLA-DPA1	chr6:33048457:33048555:-@chr6:33041248:33041446:- @chr6:33037418:33037663:-	11	92%	21	48%	32	70%
HLA-DPA1	chr6:33048457:33048555:-@chr6:33041248:33041549:- @chr6:33037418:33037663:-	11	92%	20	45%	31	69%
COPZ2	chr17:46105838:46105876:-@chr17:46105042:46105155:- @chr17:46103533:46103841:-	9	75%	26	59%	35	67%
KIFC3	chr16:57793640:57793748:-@chr16:57793037:57793065:- @chr16:57792129:57792821:-	12	100%	15	34%	27	67%
TMEM63B	chr6:44102754:44102833:+@chr6:44103065:44103103:+@chr6:44104086:44 104176:+	12	100%	14	32%	26	66%
AKAP13	chr15:86198648:86199018:+@chr15:86201768:86201821:+@chr15:86207794 :86207986:+	7	58%	30	68%	37	63%
WNK1	chr12:987378:987527:+@chr12:989887:990165:+@chr12:990858:990955:+	10	83%	19	43%	29	63%
CD46	chr1:207940358:207940540:+@chr1:207941124:207941168:+@chr1:2079436 66:207943707:+	9	75%	22	50%	31	63%
MYO6	chr6:76618213:76618344:+@chr6:76621389:76621415:+@chr6:76623780:76 623998:+	8	67%	25	57%	33	62%
SOS1	chr2:39222264:39222528:-@chr2:39216411:39216455:- @chr2:39214614:39214732:-	6	50%	32	73%	38	61%
USMG5	chr10:105156166:105156270:-@chr10:105155503:105155789:- @chr10:105153956:105154151:-	9	75%	20	45%	29	60%
ABI1	chr10:27065994:27066170:-@chr10:27060004:27060018:- @chr10:27059174:27059274:-	7	58%	27	61%	34	60%
CSDA	chr12:10865810:10865932:-@chr12:10862507:10862713:- @chr12:10856650:10856747:-	12	100%	8	18%	20	59%
NMRK1	chr9:77684811:77684958:-@chr9:77684658:77684729:- @chr9:77683912:77684018:-	9	75%	18	41%	27	58%
DCAF6	chr1:167973771:167974031:+@chr1:167985019:167985189:+@chr1:1679922 26:167992285:+	12	100%	6	14%	18	57%
LRRFIP2	chr3:37136283:37136399:-@chr3:37132958:37133029:- @chr3:37125127:37125297:-	6	50%	26	59%	32	55%
SMN1	chr5:70241893:70242003:+@chr5:70247768:70247821:+@chr5:70248266:70 248842:+	7	58%	22	50%	29	54%
SMN2	chr5:69366468:69366578:+@chr5:69372348:69372401:+@chr5:69372846:69 373422:+	7	58%	22	50%	29	54%
ARID4B	chr1:235383108:235383283:-@chr1:235377084:235377341:- @chr1:235359346:235359430:-	8	67%	18	41%	26	54%
USMG5	chr10:105155503:105155789:-@chr10:105153956:105154151:- @chr10:105152128:105152223:-	7	58%	21	48%	28	53%

ARHGEF40	chr14:21555160:21555264:+@chr14:21555479:21555622:+@chr14:21556127:21556257:+	10	83%	10	23%	20	53%
FBXO38	chr5:147805085:147805264:+@chr5:147806776:147807510:+@chr5:147812987:147813087:+	6	50%	24	55%	30	52%
NF2	chr22:30077428:30077590:+@chr22:30079009:30079053:+@chr22:30090741:30094589:+	9	75%	13	30%	22	52%
MAP4K4	chr2:102483674:102483771:+@chr2:102484491:102484499:+@chr2:102486084:102486259:+	5	42%	27	61%	32	52%
NFIX	chr19:13186349:13186485:+@chr19:13189427:13189549:+@chr19:13192494:13192669:+	8	67%	16	36%	24	52%
GOLGA4	chr3:37396592:37396678:+@chr3:37402734:37402796:+@chr3:37407571:37408370:+	9	75%	12	27%	21	51%
ARHGEF10L	chr1:17958816:17958961:+@chr1:17961043:17961057:+@chr1:17961330:17961511:+	9	75%	11	25%	20	50%
MAP2K7	chr19:7968765:7968953:+@chr19:7970693:7970740:+@chr19:7974640:7974781:+	12	100%	0	0%	12	50%
SSBP3	chr1:54747111:54747200:-@chr1:54723742:54723822:-@chr1:54722800:54722859:-	12	100%	0	0%	12	50%
PPHLN1	chr12:42768665:42768876:+@chr12:42778742:42778798:+@chr12:42781258:42781337:+	4	33%	29	66%	33	50%
FN1--EDA	chr2:216246935:216247048:-@chr2:216245534:216245803:-@chr2:216243853:216244040:-	4	33%	28	64%	32	48%
SPTAN1	chr9:131371401:131371563:+@chr9:131371930:131371944:+@chr9:131373993:131374124:+	10	83%	5	11%	15	47%
NDUFV3	chr21:44317037:44317157:+@chr21:44323292:44324386:+@chr21:44328974:44329773:+	3	25%	30	68%	33	47%
C21orf62	chr21:34185902:34186053:-@chr21:34182884:34182964:-@chr21:34162984:34166796:-	4	33%	26	59%	30	46%
CADM1	chr11:115080294:115080377:-@chr11:115069126:115069158:-@chr11:115049364:115049495:-	7	58%	15	34%	22	46%
PIFO	chr1:111889532:111889671:+@chr1:111891138:111891268:+@chr1:111892728:111892845:+	8	67%	11	25%	19	46%
SLAIN2	chr4:48385664:48385801:+@chr4:48396593:48396670:+@chr4:48422142:48422460:+	4	33%	25	57%	29	45%
CADM1	chr11:115085328:115085500:-@chr11:115069126:115069158:-@chr11:115049364:115049495:-	7	58%	14	32%	21	45%
APBB2	chr4:40946882:40947087:-@chr4:40937094:40937156:-@chr4:40936631:40936716:-	2	17%	32	73%	34	45%
SORBS1	chr10:97181718:97181830:-@chr10:97174251:97174412:-@chr10:97170390:97170534:-	9	75%	6	14%	15	44%
TCF4	chr18:53256528:53257045:-@chr18:53254276:53254367:-@chr18:53252511:53252583:-	4	33%	24	55%	28	44%
AKAP9	chr7:91669988:91670212:+@chr7:91671360:91671500:+@chr7:91671982:91	8	67%	8	18%	16	42%

	672085:+						
PLD1	chr3:171405161:171405374:-@chr3:171404475:171404588:- @chr3:171395356:171395484:-	0	0%	37	84%	37	42%
PAMR1	chr11:35489549:35489656:-@chr11:35473436:35473486:- @chr11:35463029:35463241:-	7	58%	11	25%	18	42%
AGAP3	chr7:150817074:150817232:+@chr7:150817607:150817832:+@chr7:1508198 12:150820725:+	10	83%	0	0%	10	42%
DOT1L	chr19:2226182:2227126:+@chr19:2227736:2228381:+@chr19:2229784:2232 577:+	10	83%	0	0%	10	42%
FN1--EDB	chr2:216259251:216259442:-@chr2:216257654:216257926:- @chr2:216256355:216256537:-	0	0%	36	82%	36	41%
IFI44	chr1:79124997:79125168:+@chr1:79126239:79126376:+@chr1:79128389:79 128563:+	3	25%	24	55%	27	40%
PARP2	chr14:20825210:20825308:+@chr14:20825555:20825679:+@chr14:20825797 :20826063:+	8	67%	5	11%	13	39%
SRRM1	chr1:24989151:24989295:+@chr1:24989674:24989715:+@chr1:24993306:24 993416:+	8	67%	5	11%	13	39%
TRIP10	chr19:6744811:6745005:+@chr19:6746040:6746207:+@chr19:6746463:6746 572:+	8	67%	5	11%	13	39%
FBXO38	chr5:147805085:147805264:+@chr5:147806776:147807285:+@chr5:1478129 87:147813087:+	3	25%	23	52%	26	39%
KIAA1109	chr4:123145653:123145832:+@chr4:123147862:123147990:+@chr4:1231502 76:123150395:+	1	8%	30	68%	31	38%
MICAL3	chr22:18314620:18314873:-@chr22:18309220:18309282:- @chr22:18305713:18305826:-	8	67%	4	9%	12	38%
CA13	chr8:86132845:86133354:+@chr8:86137184:86137524:+@chr8:86142314:86 142429:+	0	0%	33	75%	33	38%
MLLT4	chr6:168311964:168312169:+@chr6:168314083:168314103:+@chr6:1683148 48:168314993:+	0	0%	32	73%	32	36%
DENND4C	chr9:19336268:19336412:+@chr9:19336684:19336830:+@chr9:19340990:19 341112:+	2	17%	24	55%	26	36%
TCERG1	chr5:145843114:145843356:+@chr5:145847904:145847966:+@chr5:1458491 07:145849307:+	1	8%	27	61%	28	35%
ARHGAP17	chr16:24953308:24953464:-@chr16:24950685:24950918:- @chr16:24946791:24946960:-	7	58%	5	11%	12	35%
TTC7A	chr2:47183978:47184146:+@chr2:47185634:47185691:+@chr2:47202112:47 202242:+	8	67%	1	2%	9	34%
NISCH	chr3:52514200:52514311:+@chr3:52514895:52515125:+@chr3:52518529:52 518653:+	1	8%	26	59%	27	34%
SUN1	chr7:882978:883157:+@chr7:889560:889670:+@chr7:891021:891119:+	8	67%	0	0%	8	33%
SEPT8	chr5:132112800:132113067:-@chr5:132109615:132109904:- @chr5:132101101:132101221:-	0	0%	29	66%	29	33%
RAPGEF6	chr5:130788747:130788870:-@chr5:130785716:130785739:-	0	0%	29	66%	29	33%

	@chr5:130782176:130782396:-						
MMAB	chr12:109999225:109999322:-@chr12:109999048:109999134:- @chr12:109998845:109998909:-	7	58%	3	7%	10	33%
COL6A3	chr2:238305370:238305490:-@chr2:238303230:238303847:- @chr2:238296225:238296827:-	0	0%	28	64%	28	32%
IFIT2	chr10:91043394:91043648:+@chr10:91046627:91046998:+@chr10:91051744: :91051882:+	1	8%	24	55%	25	31%
C8orf83	chr8:93966634:93966792:-@chr8:93933731:93933888:- @chr8:93929157:93929238:-	0	0%	27	61%	27	31%
IFI44L	chr1:79086088:79086256:+@chr1:79093591:79094078:+@chr1:79094636:79 094684:+	0	0%	26	59%	26	30%
RHOT1	chr17:30535126:30535328:+@chr17:30538135:30538257:+@chr17:30551635 :30552746:+	0	0%	26	59%	26	30%
SCRIB	chr8:144890779:144891195:-@chr8:144889722:144889784:- @chr8:144889094:144889183:-	7	58%	0	0%	7	29%
GABPB2	chr1:151070328:151070478:+@chr1:151076038:151076151:+@chr1:1510795 13:151079698:+	0	0%	25	57%	25	28%
ZBTB20	chr3:114107852:114107952:-@chr3:114099624:114099787:- @chr3:114099064:114099251:-	0	0%	25	57%	25	28%
CDCA7L	chr7:21956372:21956512:-@chr7:21951235:21951369:- @chr7:21947748:21948125:-	0	0%	24	55%	24	27%
ERC1	chr12:1219358:1219513:+@chr12:1221381:1221464:+@chr12:1225032:1225 199:+	0	0%	24	55%	24	27%
ACPL2	chr3:140978965:140979096:+@chr3:140981085:140981182:+@chr3:1409971 84:140997342:+	0	0%	23	52%	23	26%
C9orf80	chr9:115456411:115456513:-@chr9:115451807:115451897:- @chr9:115448791:115449913:-	0	0%	23	52%	23	26%
GLT8D2	chr12:104443673:104444066:-@chr12:104415135:104415269:- @chr12:104413408:104413454:-	0	0%	23	52%	23	26%
PHF3	chr6:64345725:64346055:+@chr6:64356524:64356700:+@chr6:64389901:64 390062:+	0	0%	23	52%	23	26%
UBA3	chr3:69129485:69129524:-@chr3:69129263:69129304:- @chr3:69126949:69127069:-	0	0%	23	52%	23	26%