

Supplementary Information, Table S1. A list of primers used in real-time quantitative PCR

Primers used for real time qPCR to examine gene expression	
Name	Sequence
RAP1-F	GGCTACTTCCGCCTTCTTAGC
RAP1-R	TCGGGACCAAATGGGATATC
18S RNA-F	CGAACGTCTGCCCTATCAACTT
18S RNA-R	ACCCGTGGTCACCATGGTA
subtel.RPH3AL-F	GGCAGCTCGTCGGTGTTT
subtel.RPH3AL-R	GCCTCGATCCACATTTGG
CLIC6-F	TGTGACCACAGTGGACCTGAA
CLIC6-R	CCGGGAGCCAGGTTCTG
SCARF1-F	CACAAGCTACCCTGGGTGACA
SCARF1-R	CTCGATGAAGCTGTGGTTGAAG
PAK2-F	TGGTCGGAACGCCATACTG
PAK2-R	GGGCCATAAGCTTCCGTGTA
AL162458.5-F	CAGGAACAGACAGTGACCAATCAG
AL162458.5-R	TCTGCCGTGGTGATCTCTTG
subtel.OPRL1-F	AGGTCGAGGATGAAGAGATCGA
subtel.OPRL1-R	CACCGGGCCCCAGTAATC
PDE3A-F	AGGACCTCCCTGCCCTGTAT
PDE3A-R	CCTCGTTTGTGGTCCCATT
RPA2-F	TTCGCCAGTGGGTTGACA
RPA2-R	TGTTTCTGGAGGAACCACAGTGT
BRSK2-F	GATGTCCAACCTGACACCAGAGT
BRSK2-R	AAGTTCCCAAACCAGGACTTCTT
TBC1D2B-F	CTCCTGGCGGAATCCAGATA
TBC1D2B-R	CCACTGCCACCAACCTGTTT
Primers used for validation of ChIP-seq	
Name	Sequence
negative.chr2-F	CCAGGACTTGGCTTGAGCTT
negative.chr2-R	CAGGATTCAAGTCAGGAAGATTTAGG
subtel.chr1-F	GCTGTATTGCAGGGTTCAACTG
subtel.chr1-R	GGGTGTCATGTGTGCATTAGGA
subtel.OPRL1-F	TGTGGACTTGGGAAGCCTTTTG
subtle.OPRL1-R	CCTACAGTTGCCAGAGGTTTCTG
subtel.AC126281.1-F	CCTTGCCAGGTTCCAAACC
subtel.AC126281.1-R	TCTCGTTCATTTCCACGTAGAAGA
CLIC6-F	GGCCTTCTGCCTAATCTGTGA
CLIC6-R	GCCCCAGAGAGACACATTAGAGTT
SCARF1-F	GCAGTGAAGCTCAGGTGCAA
SCARF1-R	TCTGTACCTGCTGGATTTGG
PAK2-F	TGGGCTGCACTCTGCTAGAA
PAK2-R	CAGCACTAAATGGCACCATAAGC
SSU_rRNA_5(chr21)-F	CACGGCCGGTACAGTGAAA

SSU rRNA_5(chr21)-R	CGACCAAAGGAACCATAACTGAT
KIAA0020-F	TCACAGTGAGACCAGACAGATCCT
KIAA0020-R	CTGTTTGCTAGACTCTGCATTTGAG
AL162458.5-F	CGCCTAACTCTACCCGAAGCT
AL162458.5-R	TGCCGGAGTCAGAGAGGAA
AC114291.1-F	ACCTCGGCCCTCTTTGCT
AC114291.1-R	TGAACAGTAGATGGGAGATCAGATG
AC013473.1-F	CACTTGAGGGCACTGCTCTGT
AC013473.1-R	AGGTGAGCCCTCAGACAAACA
not define.chr11-F	ACCTCCAGGCACCATGGA
not define.chr11-R	TGGAGAGGGCAGGTTTTTCAG
not define.chr2-F	GCAGTGGCTCAGGCCTGTAA
not define.chr2-R	CATGATCCGCCCACTTCAG
subtel.IQSEC3-F	TCAGTTTGAGTGGCCCTATCTTG
subtel.IQSEC3-R	GTATTAACCCCAACTTTCTGAAGAG
subtel.AL137028.1-F	AAGCGATCCTCCCATCTCAA
subtel.AL137028.1-R	GCATAGTGGCAAGCACCTGTAG
PDE3A-F	TGCATGGCCGTTCTTAGTTG
PDE3A-R	CAGAGTCTCGTTCGTTATCGGAAT
RPA2-F	TCAGAGCACTGGGCAGAAATC
RPA2-R	GGCAACCAGGGAAATCTGTTT
TBC1D2B-F	ACAGAGGATATGAGGGCTTAAAGC
TBC1D2B-R	GAGGATCCCAGCACCTGTTAGA
RYR2-F	CATGAATGGATGAACGAGATTCC
RYR2-R	CCCTTGGCTGTGGTTTTCG
BRSK2-F	GCGGTCACCACGCCTTT
BRSK2-R	TCCGGCGTCGGAAGT
AC098691.2-F	CCTATTAGTGGGTGAACAATCCAA
AC098691.2-R	TCGGCTCTTCTATCATTGTGA
AL928646.2-F	TCTGCCAGTGCTCTGAATG
AL928646.2-R	CGTTTACCCGCGCTTCAT
not define.chr7-F	CGGCGGGAGTAACTATGACTCT
not define.chr7-R	TGCGCGTCACTAATTAGATGACA
not define.chr3-F	GAGCTGTGTGGTCTGGCAAAG
not define.chr3-R	CAGCACCCTGTGCAGACAAG

Primers used for validation of T2N100 sites

Name	Chromosome	Sequence
T2N100-01-F	chr1:11500016-11500081	TCCCTTGAAGTATGCCTTCCA
T2N100-01-R		GGCGGTAGAGAAAGAGGAATTG
T2N100-02-F	chr1:18580774-18580842	GTCCAGAGGGCCCCATTT
T2N100-02-R		TCGCTGTATTCAGATAGAGGTCTAGATC
T2N100-03-F	chr2:122916890-122916957	ACCCTGCTCTTGGCTGTGAT
T2N100-03-R		AATGGCTTTCCTTGACTTACACATC
T2N100-04-F	chr3:159412074-159412129	CAAGGCGGGCACATCAC
T2N100-04-R		ACCATGTTGGCCAGGCTAGT

T2N100-05-F	chr4:6425456-	GGAGGGAGCTAGAGGGTAGGAA
T2N100-05-R	6425521	CACTACCTCCCTGATCTTTCAGTTC
T2N100-06-F	chr4:8348946-	GCATCCCCAGAGCTGTTATCC
T2N100-06-R	8349013	TTTAGGCCCTGCCTCAGTTC
T2N100-07-F	chr5:16348051-	CCAACCTCTGCAAGCTACAAA
T2N100-07-R	16348112	TGCAGCTGGAGATCCTTGTACA
T2N100-08-F	chr5:40728968-	CCCGTCCCTAATGAACATCTTT
T2N100-08-R	40729050	TGGTTTGAAATGCCAGTAGTG
T2N100-09-F	chr7:44136809-	GCGACAGGGCAGCTACA
T2N100-09-R	44136867	TGCCAATGATTCCGACATCTC
T2N100-10-F	chr7:85236754-	AAGCCCCGCACATGAGTCT
T2N100-10-R	85236810	CTTTTTGGAGTCCAGGCTTCA
T2N100-11-F	chr9:71880036-	TTGTGGACATGGTCTGGAA
T2N100-11-R	71880107	GCTTATGTGCTAGAGAACATTCTATTTCTT
T2N100-12-F	chr9:137102116-	GCCCCTACACCAGCCTTTCT
T2N100-12-R	137102171	TGCTCAAGGGCAGGAGAGA
T2N100-13-F	chr10:4111426-	CCCTGATCTCCAGGCTTGTG
T2N100-13-R	4111487	CTGATTATGTGACCAAGGCAATG
T2N100-14-F	chr11:10686591-	GCAAACAGCCTATCCTTTATAATGC
T2N100-14-R	10686672	AAGCAGCACAGTAGAGAGGTGAGA
T2N100-15-F	chr11:62795791-	CAGTTCTGGTTTTCTGCTAGCTTCT
T2N100-15-R	62795853	AGAGTGCGTCCAGAGGTCAAG
T2N100-16-F	chr15:22520992-	TCCCTCCATCTAGCCAGCAA
T2N100-16-R	22521053	CCACCCTACACACCACTCAGATT
T2N100-17-F	chr15:80755617-	GTCCTTGTAAGGCAGGAAGAGATT
T2N100-17-R	80755675	GGCGTTTGCTCTGCAACCT
T2N100-18-F	chr16:49816969-	TCCCTGAAACCCACATCA
T2N100-18-R	49817027	TGGCAGACACCAGAAACATCA
T2N100-19-F	chr16:75368217-	GGGTAAAAAGGACCGGAAA
T2N100-19-R	75368277	AGGTGGGACTGCCGTACAGT
T2N100-20-F	chr16:87557923-	GGTTCTTCCTCCACCCTACACA
T2N100-20-R	87557992	CCTTCCATCTAGGCAGCAACTG
T2N100-21-F	chr17:76468507-	CCACCCGATGGCTGCTT
T2N100-21-R	76468558	CGCCAGCTTCCTGCAA
T2N100-22-F	chr20:10172210-	TTAGGGTTCAAGTTGTCATCATCCT
T2N100-22-R	10172271	AGCCAGGGCACCAGTTAAGA
T2N100-23-F	chr21:39207927-	CTGAGAGGCCAGGACAGAGTCT
T2N100-23-R	39207986	CCCAAACCGTGCCATCAT
T2N100-24-F	chr22:16477703-	CCAAGAAACCAAATGAAAATGCA
T2N100-24-R	16477824	CCAATCTGTGGGTTGTCTATTTACTC
T2N100-25-F	chr22:43261870-	TTCGGGAGGTCTAGCACCTAGT
T2N100-25-R	43261927	ACGGCCAGTGGACCAAAA
T2N100-26-F	chrX:50749090-	AAACCAGATTCTGACCCTGACACT
T2N100-26-R	50749183	CACAGCCTGTCAAAGTCAGTCAA