

Specifications:

Gene:	<i>hSLIT2</i>
Accession:	NP_004778
Insert size:	4603bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

hSlit2 cDNA Plasmid

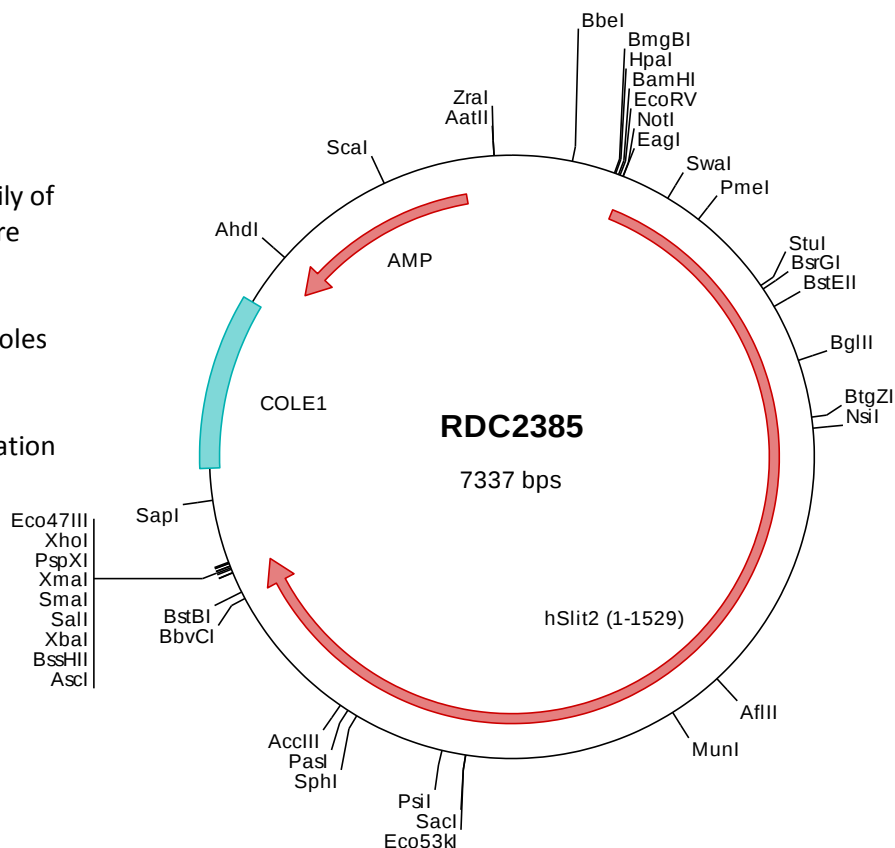
SLIT2 slit guidance ligand 2

[*Homo sapiens* (human)]

Also known as: SLIL3; Slit-2

Summary:

Slit2 is a member of the slit family of secreted glycoproteins, which are ligands for the Robo family of immunoglobulin receptors. Slit proteins play highly conserved roles in axon guidance and neuronal migration and may also have functions during other cell migration processes including leukocyte migration. Alternatively sliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2385 Plasmid DNA Sequence

```

1   tcgcgcgcttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccg gagacgggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgcg tcagcgggtg ttggcgggtg tccgggctgg cggcatcaga gcagattgta ctgagagtg accatattgc gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc aggcctcgcc cagctgttgg aagggcgatc ggtgcgggcc tcttcgctat
301  tacggccagct ggcgaaaagg ggaatgtctg caaggcgatt aagttgggta acgccagggt tttcccgctc acgacgttgt cagtgtaatt
401  ggagacgtgt taacaagctt ggaaccgata tcgctagcgc ggccgcaccc atgcgcggcg ttgggtggca gatgtgttcc ctgtogctgg gggtagtgtc
501  ggcatctctg aacaagggtg caccgcaggc gtgcgcggcg cagtgctctt gctcggcgag cacagtggac tgtcacgggc tggcgctgcg cagcgtgccc
601  aggaatatcc ccgcgaacac cgagagactg gatttaaatg gaaataacat cacaagaatt acgaagacag attttgcctg tcttagacat ctaagagttc
701  ttcagctctat ggagaaataa attagaccca ttgaaaggag agcattccag gatctttaaag aactagagag actgcgttta aacagaaatc accttcagct
801  gtttctctgag ttgctgtttc ttgggactgc gaagctatac aggcctgata tcaagttaaa ccaaattcag gcaatcccaa ggaagctttt ccgtggggca
901  gttgacataa aaaatttgca actggattac aaccagatca gctgtattga agatggggca ttcagggtcc tcogggaact ggaagtgtct actctcaaca
1001 ataaacaacat tactagactt tctgtggcaa gtttcaacca tatgcctaaa cttaggactt ttcgactgca ttcaaaacac ctgtatttgt actgcaacct
1101 ggccctggctc tccgactggc ttgcgcaaa gctcgggttt ggtctgtaca ctcaagtgtat ggcccccctc cactcgagag gccataatgt agccagggtt
1201 caaaaaacgag tttttgtctg cagtggtcac cagtcattta ttgctccttc accatcacag aataacgttt ttgcaactgc ctgcgcctg tcactgttagc aacaataatg
1301 tagactctgc ttggaaaagg tccactgaga tccactcaaa tcttcacgata atcagtttca tgaacttgca ccagatgctt tccaggactt acactctctg
1401 tggagctttc tcaacatata aaaagcttag acgaattgac ctgagcaata atcagatctc tgaacttgca ctgttttctt tacagctctt attattgaat gccacaaga
1501 aattcacttg tctctatagg aataaaaaac acagaactcc cctgaacctt ctctccctat ctctccctat ttcagactgc actgcagacc atgcgcaagg gactcttttc
1601 taaactgcct tccggtagat gcttttcagg gctttcccaa atctttattt gtaactgcca tctcaagggt ctacgggatt atctccatcc caaccgatt
1701 accttctcgg gccattcaaa ctatgacttt gcgcgacaa cgcgccttgg caaaaaag atcaaaagca agaaattccg ttgttcagct aaagaacagt
1801 gagaccagt gtgcgcctgt caccagcccc gctgccttgg caaaataaag ttgtggacag ttgctgtccc tgaaaagtgt cgtgtgtgaag actgcaacct
1901 atttcaatcc aggtacagaa gattatcgat tcttccacaa ccgggagcac attccccagt acactcgaga gttgcgtctc aataataatg aatttaacgt gttggaagcc
2001 agattgtctc aatcaaaagg tcaacaaaaa ccgggagcac acttcaaaat cgttaaaata ttgtaagca acagatattg agggggagc atttgaagga gcatctgttg
2101 acaggaatct ttaagaaact tctcaattaa cgttaaaata ttgtaagca acagatattg agggggagc atttgaagga gcatctgttg
2201 taaatgaaat acttctacg agtaaatcgtt tggaaaaatg gcagcatatg atgttcaagg gatttgaaag ctcaaaaaat cctcaaaact tttagtttga gaagcaatcg
2301 aataacctgt ttggggaaat acagtttcat aggaactcat tctgttcggt ttgtttcttt gtatgataat caaattacta cagttgcacc aggggctatt
2401 gatactctcc atttttctac tactctaaac ctcttggcca atctttttaa cacttaactgc taactgtgct atgtggccat atgtgtgcat tcaggacttc agcgaatga
2501 ttgtcacggg aaatcctaga tgtcaaaaac catacttctc tctactgtaa tgtactgtct ttgatacagt cgtccgatgt agcaacaagg gtttgaaggt ctgcccga
2601 tgacaatagt tgcctccccc ttctcgtctg atctactgaa accaattttac actgtttccc aaggaactcc ccaactacaa acatttaaac cttagaact
2701 ggtatttcaa gagatgtcac agagttgtat ctgcgtgtaa atcagagctt ctcaagctct toctactact tgcattactt tctctacagt gaaatgacat gaaatgacat ttctgttgt
2801 taagtaacaa cagaaataag acgctttcta taagctctct ctctactgtg atttgaacat cactgttccc accagctcc tcacctaat tottagttac aacogtctga gatgtattcc
2901 tctcgcacc ttgtatggat taagctctct toctactact tctctactgt atttgaacat cactgttccc accagctcc tcacctaat tottagttac aacogtctga gatgtattcc
3001 ttatacacc tagcaattgg agccaaacct ctctactgtg atttgaacat cactgttccc accagctcc tcacctaat tottagttac aacogtctga gatgtattcc
3101 ctgctgttgc ttgctcctga gaaatggcag ataaaaattt actcacaact cctccaaaaa aatttacctg tcaaggtctc taccgatgca cctgtccata atattctagc
3201 taagtgtaac cctgcctcat caaatccgtg taaaaatgat taaacacatg atagtatcc atgttgactt ttacgatgca cctgtccata atattctagc
3301 gggcaggag gtgatgtccc aattctatgc tgcactcagt accatgttaa acatggagga acttgccact taaaggaaag agaagaagat atataaggag ccttgaattg
3401 gtattttgct tgatggattt gaaggagaaa atttgtaagt caacgttgat gatttgtaag ataatagact tgaataataa tctacatgtg tcatctagc
3501 taataactac acatgccttt gccacactga gatacacagt gattgtgtgt aggaagaagt ggactctctg gccacaggac ttgaacctgt ctagcactgc caagcaaca
3601 taacagtgc tcttaactcc aaaggtatcc aaatgtgact gcaacacagg gtacactact atatgcctcg aaggttacag ttgcttcttc tgtgagtttt ctcaccccat
3701 agtgtaaaaa cggagccccc tgcacagatg cagtgaacgg ctatactgct cagatagttg agcagatgag atcagctgtc ctcaagctgc atctcgatg caagcaaca
3801 ggtctcctcc ctgaccagcc cctgtgataa ttttgattgt agatgtggag cagatagttg atcagctgtc ctcaagctgc atctcgatg caagcaaca
3901 tatcaggag aaaagtgtga aaaattggtt agttgtgaatt ctttgaacat ttataaacaa agagtcttat agagtcttat accatctcgc ggtgacaaag
4001 taacacttca gattgccaca gatgaagaca gcggaatcct cctgtataag ggtgacaaag accatctcgc ggtgacaaag
4101 cagctatgac accggtctct atccagcttc tgccatttacc agtgtggaga caatcaatga tggaaacttc cacatttggt aactacttgc cttggatcag
4201 agtctctctt tgtccttgga ttgtgggaac cccaaataca gtaacacact gtaacacact gtaacacact attttgactc tcaactctat gttaggagca
4301 tgccagggaa gagtaacgtg gcatctctgc gccaggcccc tgggcagaa cccaacagct tccacgctg catccggaa cctccggaa ctttatcatc acagttagct
4401 cgaggacttc cagaaggtgc cgtgcaaaac aggcattttg cctgctgtgt ggcctctctg tgaccaacgg ctgtccttga tgaagaggag ggaacagctg tgatcgagaa
4501 caggcagctc tcaactcgca gtgcaggaaa ggtgagttgt gctgtgaagt gcttgcaggt cctgtggcag ctaactgtga atgcagcag ttgccaaaca ccaagaaggt gcccgatta gactgcagag
4601 cctgcttccc catcaatgct tctctctaca gctgtgaagt ttttgaacat cgtgtgaggt agcagcagct ctaactgtga atgcagcag ttgccaaaca ccaagaaggt gcccgatta gactgcagag
4701 ggcatcaagt tgcagcatg ggaagtgcag gcttccaggt tattcaaaaa cgtgtgaggt aaataactct togaatgcac tgaagggctc ccgggggaatt cctcgagcgc cctcgagcgc
4801 atctcttctg gaggggaaag taagaagat tattcaaaaa cgtgtgaggt aaataactct togaatgcac tgaagggctc ccgggggaatt cctcgagcgc cctcgagcgc
4901 gtgggtgtgc agggggcag tgcgtgggac cgtgtaggag aggcgcgcga aggcgcgcga gtatactctc gactgcagac ccgggggaatt cctcgagcgc cctcgagcgc
5001 gaaagtgtgt aagtgcgctc tgcagaggtg tgtgtcctaa aggcgcgcga aggcgcgcga gtatactctc gactgcagac ccgggggaatt cctcgagcgc cctcgagcgc
5101 cttggcgtaa tcatggtcat agctgttttc tgtgtgaaat tgtttatccc tgattatccc tcacaattcc acacaacata cgagccggaa cgtgtgcca gctgcattaa tgaatcgcc
5201 ggtgcctaat gactgagcta actcacatta attgcgttgc gctcactgcc cgttctctcg gataacgcag gaaagaacat gtgagcaaaa ggccagcaaa agaggtggcg cctgtccgcc ttaccggata
5301 aacgcgcgg gagaggcgtt ttgcgtattg agaatcaggg gataacgcag gaaagaacat gtgagcaaaa ggccagcaaa agaggtggcg cctgtccgcc ttaccggata
5401 tcaactcaaa gcggtatgct ggttatccac ccataggtct cgcctccctg acgagcatca ccaaaatcga accctgcgcg ttaccggata
5501 gccgcgttgc tggcgttttt ggaagctccc tctcagttcg gtagagcaaa ccaaaatcga accctgcgcg ttaccggata
5601 gataccaggg gtttccccct ggaagctccc tctcagttcg gtagagcaaa ccaaaatcga accctgcgcg ttaccggata
5701 ggcgttttct caatgctcac gctgtaggta tctcagttcg gtagagcaaa ccaaaatcga accctgcgcg ttaccggata
5801 tgcgcttat ccggttaacta tctctcttag tccaaacccg gtagagcaaa ccaaaatcga accctgcgcg ttaccggata
5901 atgtaggcgg tgctacagag tttctgaagt ggtggcctaa accgctggta ctagaagga gctgtgttct cgtgtgttct cgtgtgttct cgtgtgttct
6001 cggaaaaaga gttggtagct cttgactccg ggtgtctgac ctaggtgtaa ctagaagga gctgtgttct cgtgtgttct cgtgtgttct cgtgtgttct
6101 tctcaagaag atcctttgat cttttctacg ggtgtctgac ctaggtgtaa ctagaagga gctgtgttct cgtgtgttct cgtgtgttct cgtgtgttct
6201 tcaactagat ccttttaaat taataatgaa gtttttaact aatctaaagt gctgtacttc cgtgtacttc aataaacagg taagataggt aaacttggtc taacagctacg
6301 acctatctca gctatctgtc tatttcgttc atccatagtt atttatcagc tagagtaagt agttgccag atactctgta gttcttcggt gataaactacg atacgggagc
6401 gctgcaatga taccgcgaga cccacgctca ccggctccag atttatcagc tagagtaagt agttgccag atactctgta gttcttcggt gataaactacg atacgggagc
6501 tatccgcctc catccagctt attaatgttt ttcatttggc ttcatttccc cgcagctgtt atcaactcat gcttatggcg tgcggcgacc gagttgtctc tcaaggtatc tcaaggtatc
6601 cgtgtgttca cgtcgtcgt tttgttggc agtaagttgg gtcattctga atgtgaaac agtctgtcgt gctcttcggt tcaaggtatc tcaaggtatc
6701 agctccttgc gtcctccgat cgttgtcaga agtaagttgg gtcattctga atgtgaaac agtctgtcgt gctcttcggt tcaaggtatc tcaaggtatc
6801 ccgtaagatg cttttctgtg actgtgtgag taacttaaaa ctttcaagat tcttcaagat tcttcaagat tcttcaagat tcttcaagat
6901 taataccgcg ccaatagca aacaaactga aactgttgaa taactatact cttccttttt caatattatt cccgaaaagt cccgaaaagt
7001 tcatgtgaa ccaactgtgc aactgttgaa taactatact cttccttttt caatattatt cccgaaaagt cccgaaaagt
7101 agggaataag ggcagacagg aactgttgaa taactatact cttccttttt caatattatt cccgaaaagt cccgaaaagt
7201 atttagaagt atttagaata taactatact cttccttttt caatattatt cccgaaaagt cccgaaaagt
7301 acctataaaa ataggcgtat cagcaggccc tttcgtct

```

> RDC2385 Translated Insert Sequence

```

1  mrgvgwqmls lslglvlail nkvpagacpa qcscsgstvd chglalrsvp rniprnterl dlngnnitri tktdfaglrh lrvlqlmenk istiergafq
101 dlkelerlrl nrnhlqlfpe llflgtakly rldlsenqiq aiprkafrga vdi knlqldy ngisciedga fralrdlevl tlnnnnitr1 svasfnhmpk
201 lrtfrlhsnn lycdchlawl sdwlrqrprv glytqcmgps hlrghnvaev qkrefvcsgq qsfmapsctv lhcpaactcs nnivdcrqkg lteiptnlpe
301 titeirleqn tikvippgaf spykklrrid lsnnqisela pdafqglrrsl nslvlygnki telpkslfeg lfslqlllln ankinclrvd afqdlhnl1
401 lslydnklqt iakgtfslpr aiqtmhlaqn pficdchlkw ladylhtnpi etsgarctsp rrlankrigg ikskkfrcsa keyyfigpte dyrsklsgdc
501 fadlacpekc rcegttvdcx nqklnkipeh ipqytaelrl nneftvlea tgifkklpql rkinfsnnki tdieegafeg asgvneillt snrlenvqhk
601 mfkgleslkt lmlrsnritc vgn dsfigls svrllslydn qittvapgaf dtlhlslstln llanpfnccn ylawlgewlr kkrivtgnpr cqkpyflkei
701 piqdvaigdf tcddgnddnc csplsrcpte ctcldtvvrk snkgklvlpk giprdvtely ldgnqftlvp kelsnykhlt lidlsnnris tlnsqsfnsn
801 tqlltlilsy nrlrcipprt fdglkslrl1 slhgndisvv pegafndlsa lshlaiganp lycdcmqwl sdwvkseyke pgiarcaggp emadkl111t
901 pskkftcggp vdvnilakcn pclsnpcknd gtcnsdpvdf yrctcpygfk gqdcdvpiha cisnpckhgg tchlkegeed gfwicadgff egencevnd
1001 dcedndcenn stcvdginny telcppeytg elceekldfc aqdlncqhd skciltpkgf kcdctpgyvg ehcdidfdcc qdnkckngah ctdavngytc
1101 icpegysglf cefspmvlp rtspcdnfdc qnagacivri nepicqclpg yqgekceklv svnfinkesy lqipsakvrp qtnitlqiat dedsgillyk
1201 gdkdhiavel yrgrvrasyd tgshpasaiy svetindgnf hivellaldq slslsvdggp pkiitnlskq stlnfdsply vggmpgksnv aslrqapggq
1301 gtsfhgcirn lyinselqdf qkvpmqtgil pgcepchkkv cahgtcqpss qagftcecqe gwmgp1cdqr tndpclgnkc vhgtdclpina fsysckcleg
1401 hggvlcdeee dlfnpcqaik chkgkcr1sg lgqpycecsc gytgdsdcre iscrgerird yyqkqqgyaa cqttkkvsrl ecrggcaggq ccgplrskrr
1501 kysfectdgs sfvdevekvv kcgctrcvs

```