

Product datasheet for **RG227447**

SLITRK2 (NM_001144005) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|-----------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | SLITRK2 (NM_001144005) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | SLITRK2 |
| Synonyms: | CXorf1; CXorf2; SLITL1; TMEM257 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG227447 representing NM_001144005
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAGCGCGCTTTGGTTCCCTCAGTGTGTTAACCGTGGCCGGGATCTTACAGACAGAGAGTCGAAAA
 CTGCCAAAGACATTTGCAAGATCCGCTGTCTGTGCGAAGAAAAGGAAAAGTACTGAATATCAACTGTGA
 GAACAAAGGATTTACAACAGTTAGCCTGTCCAGCCCCCAGTATCGAATCTATCAGCTTTTTCTCAAT
 GGAACCTCTTGACAAGACTGTATCCAAACGAATTTGTCAATTACTCCAACGCGGTGACTCTTACCTAG
 GTAACAACGGGTTACAGGAGATCCGAACGGGGCATTCACTGGCCTGAAAACCTCTCAAAGACTGCATCT
 CAACAACAACAAGCTTGAGATATTGAGGGAGGACACCTTCTAGGCTGGAGAGCCTGGAGTATCTCCAG
 GCCGACTACAATTACATCAGTGCATCGAGGCTGGGGCATTCAAGCAACTTAACAAGCTCAAAGTGTCTCA
 TCCTGAATGACAACCTTCTGCTTCTACTGCCAGCAATGTGTTCCGCTTTGTCTGCTGACCCACTTAGA
 CCTCAGGGGAATAGGCTAAAAGTAATGCCTTTTGTGGCGTCTTGAACATATTGGAGGGATCATGGAG
 ATTCAGCTGGAGGAAAATCCATGGAATTGCACTTGTGACTTACTTCTCTCAAGGCTGGCTAGACACCA
 TAACTGTTTTTGTGGGAGAGATTGTCTGTGAGACTCCCTTTAGGTTGCATGGGAAAAGACGTGACCCAGCT
 GACCAGGCAAGACCTCTGTCCCAGAAAAGTGCCAGTGATTCCAGTCAGAGGGGACGCCATGCTGACACC
 CACGTCCAAGGCTGTCACTACAATGAATCCTGCTCTCAACCCAACAGGGCTCCGAAAGCCAGCCGGC
 CGCCAAAATGAGAAATCGTCCAACCTCTCGAGTACTGTGTCAAAGGACAGGCAAAGTTTTGGACCCAT
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 TCAGACAATGGTCTGAATGTAACCTGCCAAGAAAGGAAGTTCATAATATCTCTGACCTGCAGCCAAAAC
 CGACCAGTCCAAGAAAACCTACCTAACAGGGAACCTATCTTCAAACCTGTCTATAAAGATGACCTTTAGA
 ATACAGTTCTTTGGACTTACTGCACTTAGGAAACAACAGGATTGCAGTCATTCAGGAAGGTGCCTTTACA
 AACCTGACCAGTTTACGCAGACTTTATCTGAATGGCAATTACCTTGAAGTGTGTACCTTCTATGTTTG
 ATGGACTGCAGAGCTTGAATATCTCTATTTAGAGTATAATGTCATTAAGGAAATTAAGCCTCTGACCTT
 TGATGCTTTGATTAACCTACAGTACTGTTTCTGAACAACAACCTTCTTCGGTCTTACCTGATAATATA
 TTTGGGGGACGGCCCTAACAGGCTGAATCTGAGAAACAACCATTTTTCTCACCTGCCCGTAAAGGGG
 TTCTGGATCAGCTCCCGCTTTCATCCAGATAGATCTGCAGGAGAACCCCTGGGACTGTACCTGTGACAT
 CATGGGCTGAAAGACTGGACAGAACATGCCAATCCCCTGTATCATTAAATGAGGTGACTTGCGAATCT
 CCTGCTAAGCATGCAGGGGAGATACTAAAATTTCTGGGAGGGAGGCTATCTGTCCAGACAGCCAAAAC
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 TTCTATCCTGAACTACACACTGAAGTCCACTGTCTGTCTTAATTCTGGGATTGCTTGTGTTTTTCATC
 TTATCTGTCTGTTTTGGGGCTGGTTTATTCGTCTTTGTCTTGAACGCCGAAAGGGAGTGCCGAGCGTTC
 CCAGGAATACCAACAACCTTAGACGTAAGCTCCTTTCAATTACAGTATGGGTCTTACAACACTGAGACTCA
 CGATAAAACAGACGGCCATGTCTACAATATACCCCCACCTGTGGGTGAGATGTGCAAAAACCCATC
 TACATGCAGAAGGAAGGAGACCCAGTAGCCTATTACCGAAACCTGCAAGAGTTGAGCTATAGCAACCTGG
 AGGAGAAAAAAGAAGAGCCAGCCACACCTGCTTACACAATAAGTGCCACTGAGCTGCTAGAAAAGCAGGC
 CACACCAAGAGAGCCTGAGCTGCTGTATCAAAATATTGCTGAGCGAGTCAAGGAACTTCCAGCGCAGGC
 CTAGTCCACTATAACTTTTGTACCTTACCTAAAAGGCAGTTTGCCCTTCTATGAATCTGACGCCAAA
 ACCAAGACAGAATCAATAAAACCGTTTTATATGGAACCTCCAGGAAATGCTTTGTGGGGCAGTCAAACC
 CAACCACCTTTACTGCAAGCTAAGCCGAATCAGAACCAGGACTACCTCGAAGTTCTGAAAAACAACT
 GCAATCAGTCAGCTG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227447 representing NM_001144005
Red=Cloning site Green=Tags(s)

MLSGVWFLSVLTVAGILQTESRKTAKDICKIRCLCEEKENVLNINCENKGFTTVSLLQPPQYRIYQLFLN
GNLLTRLYPNEFVNYSNAVTLHLGNGLQEIRTGAFSGLKTLKRLHLNNKLEILREDTFLGLESLEYLQ
ADYNYISAIEAGAFSKLNKLVILNDNLLLSPSNVFRFVLLTHLDLRGNRLKVMPPFAGVLEHIGGIME
IQLEENPWNCTCDLLPLKAWLDTITVFVGEIVCETPFRLHGKDVTQLTRQDLCPRKSADSSQRGSHADT
HVQRLSPTMNPALNPTRAPKASRPPKMRNRPTPRVTVSKDRQSFPIMVYQTKSPVPLTCPSSCVCTSQS
SDNGLNVNCQERKFTNISDLQPKPTSPKKLYLTGNYLQTVYKNDLLEYSSDLLHLGNNRIAVIQEGAFT
NLTSRRLYLNGNYLEVLPSMFDGLQSLQYLLEYNVIKEIKPLTFDALINLQLLFLNNNLLRSLPDNI
FGGTALTRLNLRNNHFSHLPVKGVLQPAFIQIDLQENPWDCTCDIMGLKDWTEHANSPIINEVTCES
PAKHAGEILKFLGREAIKPDSPNLSDGTVLSMNHNTDTPRSLVSPSSPELHTEVPLSVLILGLLVVFI
LSVCFGAGLFVFLKRRKGVPSVPRNTNNDVSSFQYQYGSYNTETHDKTDGHVYNYIPPPVGMQCNPI
YMQKEGDPVAYYRNLEQFYSYNLEEKKEEPATPAYTISATELLEKQATPREPELLYQNI AERVKELPSAG
LVHYNFCTLPKRQFAPSYESRRQNQDRINKTVLYGTPRCKFVQSKPNHPLLQAKPQSEPDYLEVLEKQT
AISQL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

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|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACCN: | NM_001144005 |
| ORF Size: | 2535 bp |
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| Components: | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water). |
| Reconstitution Method: | <ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C. |
| RefSeq: | NM_001144005.3 |
| RefSeq Size: | 3944 bp |
| RefSeq ORF: | 2538 bp |
| Locus ID: | 84631 |
| UniProt ID: | Q9H156 |
| Cytogenetics: | Xq27.3 |
| Protein Families: | Transmembrane |
| Gene Summary: | This gene encodes an integral membrane protein that contains two N-terminal leucine-rich repeats domains and contains C-terminal regions similar to neurotrophin receptors. The encoded protein may play a role in modulating neurite activity. Alternatively spliced transcript variants encoding the same protein have been described.[provided by RefSeq, Feb 2010] |