

## Product datasheet for **SC128227**

### SLITRK4 (NM\_173078) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLITRK4 (NM_173078) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLITRK4
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC128227 sequence for NM\_173078 edited (data generated by NextGen Sequencing)

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ATGTTTCTGTGGCTGTTTCTGATTTTGTGAGCCCTGATTTCTTCGACAAATGCAGATTCT
GACATATCGGTGGAAATTTGCAATGTGTGTTCTCGTGTGAGTTGAGAAATGTGCTCTAT
GTCAACTGTGAGAAGGTTTCAGTCTACAGACCAAATCAGCTGAAACCACCTTGGTCTAAT
TTTTATCACCTCAATTTCCAAAATAATTTTTTAAATATTCTGTATCCAAATACATTCTTG
AATTTTTTCACATGCAGTCTCCCTGCATCTGGGGAATAATAAACTGCAGAACATTGAGGGA
GGAGCCTTTCTTGGGCTCAGTGCATTAAGCAGTTGCACTTGAACAACAATGAATTAAG
ATTCTCCGAGCTGACACTTTCCTTGGCATAGAGAATTGGAGTATCTCCAGGCTGACTAC
AATTTAATCAAGTATATTGAACGAGGAGCCTTCAATAAGCTCCACAAACTGAAAGTTCTC
ATTCTTAATGACAATCTGATTTTATTCCTTCTGATAATTTTTCCGATTTCGCATCTTTG
ACCCATCTGGATATACGAGGGAACAGAATCCAGAAGCTCCCTTATATCGGGGTTCTGGAA
CACATTGGCCGTGCTGTTGAATTGCAACTGGAAGATAACCCTTGGAACTGTAGCTGTGAT
TTATTGCCCTTAAAGCTTGGCTGGAGAACATGCCATATAACATTTACATAGGAGAAGCT
ATCTGTGAAACTCCCAGTGACTTATATGGAAGGCTTTTAAAGAAACCAACAAACAAGAG
CTATGTCCCATGGGCACCGGCAGTGATTTTGACGTGCGCATCCTGCCTCCATCTCAGCTG
GAAAATGGCTACACCACTCCCAATGGTCACTACCCAAACATCTTTACACAGATTAGTA
ACTAAACCACCAAAAACAACAAATCCTTCCAAGATCTCTGGAATCGTTGCAGGCAAAAGCC
CTCTCCAACCGCAATCTCAGTCAGATTGTGCTTACCAACAAGGGTGCCTCCTCTAACA
CCTTGCCCGGCACCTTGCTTCTGCAAAACACACCTTTCAGATTTGGGACTAAGTGTGAAC
TGCCAAGAGAAAAATACAGTCTATGTCTGAACTGATACCGAAACCTTTAAATGCGAAG
AAGCTGCACGTCAATGGCAATAGCATCAAGGATGTGGAGTATCAGACTTCACTGACTTT
GAAGACTGGATTTGCTTCATTTAGGCAGCAATCAAATTACAGTGATTAAGGGAGACGTA
TTTCACAATCTCACTAATTTACGCAGGCTATATCTCAATGGCAATCAAATTGAGAGACTC
TATCCTGAAATTTTTAGGCTTTCATAACCTGCAGTATCTGTATTTGGAATACAATTTG
ATTAAGGAAATCTCAGCAGGCACCTTTGACTCCATGCCAAATTTGCAGTACTGTACTTA
AACAAATCTCCTAAAGAGCCTGCCTGTTTACATCTTTTCCGGAGCACCTTAGCTAGA
CTGAACCTGAGGAACAACAAATTCATGTACCTGCCTGTCAGTGGGGTCTTGATCAGTTG
CAATCTTTACACAGATTGACTTGGAGGGCAACCCATGGGACTGTACTTGTGACTTGGTG
GCATTAAGCTGTGGGTGGAGAAGTTGAGCGACGGGATTGTTGTGAAAGAACTGAAATGT
GAGACGCCTGTTCAAGTTGCCAACATTGAACTGAAAGCCCTCAAAAATGAAATCTTATGT
CCCAAACCTTTAAATAAGCCGTCTGCACCATTCACAAGCCCTGCACCTGCCATTACATTC
ACCACTCCTTTGGGTCCCATTGGAAGTCTCCTGGTGGGCCAGTGCCTCTGTCTATTTTA
ATCTTAAGTATCTTAGTGGTCTCATTTTAACGGTGTGTTGCTTTTTGCCTTCTTGT
TTTGTCTGCGACGCAACAAGAAACCCACAGTGAAGCAGCAGGAGCCCTGGGGAATCCTGAC
TGTGGCTCCATGCAGTGCAGCTAAGGAAGCATGACCACAAAACCAATAAAAAAGATGGA
CTGAGCACAGAAGCTTTCATTCACAAACTATAGAACAGATGAGCAAGAGCCACACTTGT
GGCTTGAAGAGTCAGAACTGGGTTTCATGTTTTAGATCCTCCAGGACAGAAAGTTGTT
ATGAGAAAATGTGCCGACAAGGAGAAAGATTTATTACATGTAGATACCAGGAAGAGACTG
AGCACAATTGATGAGCTGGATGAATTATCCCTAGCAGGGATTCCAATGTGTTTATTGAG
AATTTTCTTGAAAGCAAAAAGGAGTATAATAGCATAGGTGTCAGTGGCTTTGAGATCCGC
TATCCAGAAAAACAACCAGACAAAAAAGTAAGAAGTCACTGATAGTGGCAACCACAGT
AAAATTGTTGTGGAACAAAGGAAGAGTATTTTGAAGTGAAGGCGAAACTGCAGAGT
TCCCTGACTACCTACAGGTCCTTGAGGAGCAAACAGCTTTGAACAAGATCTAG

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Clone variation with respect to NM\_173078.3  
503 c=>t

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_173078 unedited  
 GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGAGGAGCTCTGTCCGGAA  
 TCACATAGATACCATCGTGGAAACAGCAGCGCAGGTACGGCGCCGCGGGCCCTGCACCA  
 GACGCTGGGCTCTAGAGATTATTTCTCTTTATTTCAGAAGCATACAGTTGTTTGCTGATTG  
 CAAGAAGATGTTTCTGTGGCTGTTTCTGATTTTGTGAGCCCTGATTTCTTCGACAAATGC  
 AGATTCTGACATATCGGTGGAAATTTGCAATGTGTGTTCCCTGCGTGTGAGTTGAGAAATGT  
 GCTCTATGTCAACTGTGAGAAGGTTTCAGTCTACAGACCAAATCAGCTGAAACCACCTTG  
 GCTAATTTTTATCACCTCAATTTCCAAAATAATTTTTAAATATTCTGTATCCAAATAC  
 ATCTTGAATTTTTACATGCAGTCTCCCTGCATCTGGGGAATAATAAACTGCAGAACAT  
 TGAGGGAGGAGCCTTTCTGGGCTCAGTGCATTAAGCAGTTGCACCTGAACAACAATGA  
 ATTAAGATTCTCCGAGCTGACACTTTCTTGGCATAGAGAACTGGAGTATCTCCAGGC  
 TGACTACAATTTAATCAAGTATATTGAACGAGGAGCCTCAATAAGCTCCACAACTGAA  
 AGTTCTCATTCTAATGANCATCTGATTTTATTCCTTCTGNATATATTTCCGATTTCGC  
 ATCTTTGACCCATCTGGATATACGANGGAACAGATCCAGAAGCTCCTTATAATCGGGTTC  
 TGGACACATTNGNCCGTGTCGTTGAATTGCACTGAAAAGATACCCTTGNACTGTAGCTGT  
 GATTTATTGCCCTTAAAGCTGGCTGGAGACATGCCATATACATTACTANGAGAGCT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_173078 unedited  
 TTTACACGGGAGTTGTTACAATGCCACAAATCAAAGGATTATTCCAGTTCACCAACTTA  
 ATCTACGTGCAAGATAAAGGACCCAGCTGGTACAGGTGTACCAGTTTTCTTGAGTTTGCT  
 TTACAAAGCACAAGAGACGAAGGTTTTGCATTGGAGTACAAAACAGATTTGCCTCTTGA  
 GGTAAATTCAGTATTATGTGTATAAAGCATCCCTTTGGCAATAGAGTTTGCAGTATCCC  
 CACAGGACTCCACAGTATAGTTTTATGTAGTAAATCTATTAACAAATTTCTTCTTAC  
 TTGACACATCTTTCAGCTACAGTTAATGAGACACCCTTGGAAACACCTGCCTCCATGCC  
 TATTGATAATATAGTATTTGGAAGTTAGAAGTCAACAAAAGGCACCTTTCATCATTAAATA  
 AATGTCCTCTGTATGAAGTAAGATTACATGACCTAGATCTTGTTCAAAGCTGTTTGCTCC  
 TCAAGGACCTGTAGGTAGTCAGGGGAACCTGCAGTTTCGCTTTCAGTTCAAATACTCA  
 CTCTTCTTTGTTCCACAACAATTTTACTGTGGTTGCCACCTATCAGTGACTTCTTACTT  
 TTTTTGTCTGGTTGTTTTCTGGATAGCGGATCTCNAAGCCACTGACACCTATGCTATTA  
 TACTCCTTTTGTCTTTTTCAGAAAATTTGAATAACACATTGGAATCCCTGCTAGGGAATA  
 AATTCTCAGCTCATCAATTGGGCTCCATCTCCTCCGGTATCTAACTGTAATAAAACCTT  
 CTCCTTGTGCGCCACATTTCTCATAAACCTTTCTGTTGCGGGGGATCCTGAAACTTGAA  
 CCCAGTTTCTGGCTCTTTTAGGCCAAAGTGTGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_173078

**Insert Size:**

3700 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:**

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\\_173078.2](#), [NP\\_775101.1](#)

**RefSeq Size:** 3383 bp

**RefSeq ORF:** 2514 bp

**Locus ID:** 139065

**UniProt ID:** [Q8IW52](#)

**Cytogenetics:** Xq27.3

**Domains:** LRRNT, LRRCT, LRR, LRR\_TYP, LRR\_SD22, LRR\_PS

**Protein Families:** Transmembrane

**Gene Summary:** This gene encodes a transmembrane protein belonging to the the SLITRK family. These family members include two N-terminal leucine-rich repeat domains similar to those found in the axonal growth-controlling protein SLIT, as well as C-terminal regions similar to neurotrophin receptors. Studies of an homologous protein in mouse suggest that this family member functions to suppress neurite outgrowth. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2010]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.