

Product datasheet for **RG230523**

SLITRK4 (NM_001184749) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLITRK4 (NM_001184749) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLITRK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230523 representing NM_001184749
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTTCTGTGGCTGTTTCTGATTTTGTACGCCCTGATTTCTTCGACAAATGCAGATTCTGACATATCGG
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 AGTCTACAGACCAAATCAGCTGAAACCACCTTGGTCTAATTTTTATCACCTCAATTTCCAAAATAATTTT
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 ACTGCAGAGTTCCCTGACTACCTACAGGTCCTTGGAGGCAACAGCTTTGAACAAGATC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG230523 representing NM_001184749
 Red=Cloning site Green=Tags(s)

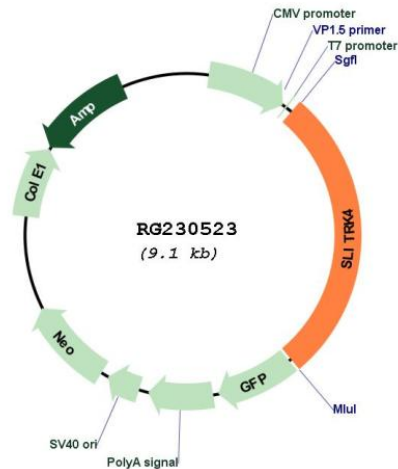
MFLWFLILSALISSTNADSDISVEICNVCSVSVENVLYVNCVKSVYRPNQLKPPWSNFYHLNFQNNF
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 NLIKYIERGAFNKLHKLKVLILNDNLISFLPDNIFRFASLTHLDIRGNRIQKLPYIGVLEHIGRVVQL
 EDNPWNCSDLLPLKAWLENMPYNIYIGEAICTPSDL YGRLLKETNKQELCPMGTGSDFDVRIILPPSQL
 ENGYTTPNGHTTQSLHRLVTKPPKTTNPSKISGIVAGKALSNRNL SQIVSYQTRVPLTPCPAPCFCKT
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 FHNLTLNRLYLNGNQIERLYPEIFSGLHNLQYLYLEYNLIKEISAGTFDSMPNLQLLYLNNLLKSLPV
 YIFSGAPLARLNLRNKFMYPVSGVLDQLQSLTQIDLEGNPWDCTCDLVALKLWVEKLSDGIVVKELKC
 ETPVQFANIELKSLKNEILCPKLLNKPSAPFTSPAPAITFTTPLGPIRSPPGPVPLSILILSILVVLIL
 TVFVAFCLLVFLRRNKKPTVKHEGLGNPDCGSMQLQLRKHDKTKNKDGLSTEAFIPQTEQMSKSHTC
 GLKESETGMFSDPPGQKVVMRNVADKEKDLLHVDTRKRLSTIDELDELFP SRDSNVFIQNFLSKKEYN
 SIGVSGFEIRYPEKQPKKSKKSLIGGNHSKIVVEQRKSEYFELKAKLQSSPDYLVLEEQTALNKI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001184749

ORF Size: 2511 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:

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_001184749.1](#), [NP_001171678.1](#)

RefSeq Size: 8767 bp

RefSeq ORF: 2514 bp

Locus ID: 139065

UniProt ID: [Q8IW52](#)

Cytogenetics: Xq27.3

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]