

Product datasheet for **MG217810**

Slitrk2 (NM_001161431) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slitrk2 (NM_001161431) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slitrk2
Synonyms:	A930040J07
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217810 representing NM_001161431
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGAGCGCGCTTTGGTTCCCTCAGTGTGTTAACAGTGGCCGGGATCTTACAGACCAGAGTGCAGAAA
 CTGCCAAAGACATTTGCAAGATCCGCTGCTTGTGCGAAGAGAAGGAAAACGTAATATTAACCTGTGA
 AAACAAAGGATTTACAACGTGTCAGTTTGCCTTCAACCCCCCAGTATCGCATCTATCAGCTGTTTCTCAAC
 GGAAACCTCTTGACCAGACTGTATCCAATGAGTTTGTCAATTATTCAAATGCGGTGACTCTTCATCTAG
 GTAACAATGGGCTGCAGGAGATCCGACCTGGGGCATTAGTGGTCTGAAAACCTCTCAAAGACTGCACCT
 CAATAACAACAACTGGAGGATTGCGAGAGGACACTTTTCTAGGCCTAGAGAGTCTGGAGTACCTCCAA
 GCTGACTACAATTACATCAGCACCATCGAGGCAGGGCATTAGCAAACTGAATAAGCTGAAAGTACTCA
 TCCTGAATGACAACCTTTTGTGCTTTTGCAGTAATGTGTTTCGGTTTGTCTGCTGACTCACTTAGA
 CCTGAGGGGGAACAGGTTGAAAGTAATGCCTTTTGTGCTGCTTGAACATATTGGAGGAATCATGGAA
 ATTCAGCTGGAAGAAAACCCGTGGAATTGCACCTGTGACTTACTTCTCTCAAGGCATGGCTGGACACCA
 TTAAGTGTGTTTGTGGGGGAGATTGTCTGTGAAACCCCTTTCAGGTTACATGGGAAAGATGTGACCCAGT
 GACCAGACAAGACCTCTGTCCCAGAAAAGTGAAGTGGTATTCTAGTCAGAGGAGCAGCCATTGAGAC
 ACACATGTTCAAAGGCTGACCCCTACAACAAATCCTGCTCTCAACCAACAGAGCTCCAAAAGCCAGCC
 GGCCACCCAAAATGAGAAATCGTCCGACTCCTCGAGTACTGTGTCAAAGACCAGGAGCTTTGGCC
 GATCATGGTGTACCAGACCAAGTCCCGTGGCCCTCACCTGTCCAGCAGCTGTGTCTGACTTCTCAG
 AGCTCAGACAATGGTCTAAATGTGAATTGCCAAGAAAGGAAGTCACTAACATCTCTGACCTACAGCCCA
 AACCTACCAGTCAAAGAAACTACCTAACAGGGAATCTCTCAAACAGTCTATAAGAAATGACCTTT
 AGAATACAGTTCACTGGATTTGTTGCATTTAGGAAACAACAGGATTGCAGTCATTAGGAAGGTGCCTTT
 ACAACCTGACCAGTTTACGAAGACTTTATCTGAATGGCAATTACCTTGAAGTGTGTATCCTTCTATGT
 TTGATGGACTGCAGAGCTTGCAGTATCTCTATTTAGAGTATAATGTCATTAAGGAAATTAAGCCTCTGAC
 CTTTGTGCTTTGATTAACCTCCAGCTCCTGTTTCTGAATAACAACCTGTGAGGTCCTTACCTGATAAT
 ATATTTGGGGGCACAGCCCTCACCAGGCTGAATCTGAGAAACAATCATTTTTCTCACCTGCCTGTGAAAG
 GGGTCTGGACCAGCTTCTGCTTTTATCCAGATAGATCTGCAAGAGAACCCATGGGACTGCACCTGTGA
 CATCATGGGCTAAAGGACTGGACCGAACATGCCAATTCTCCTGTATCATCAATGAGGTGACTTGTGAG
 TCTCCCGTAAGCATGCAGGGGAGATACTGAAATTCCTGGGAAGGGAGGCTATTTGTCCAGAAAATCCTA
 ACCTGTCAGATGGGACTATTTTGTCAATGAATCACAACACAGACACACCTAGATCACTTAGTGTGTCTCC
 TAGTTCTTACCCGAACTACACACTGAAGTTCCTCTCCGTTTTAATTTTAGGATTGCTTGTGGTTTTT
 ATCCTGTCTGTCTGTTTTGGGGCGGGTGTTCGCTTTTGTCTGAAGCGTCGAAAGGGAGTGCCAAATG
 TTCCCAGGAATGCCACCAACTTAGATGTAAGTTCCTTCCAGTTACAATATGGGTCTTACAACACCCGAGAC
 TAATGATAAAGCTGATGGCCACGTCTATAACTACATTCTCCACCTGTGGGTGAGATGTGCCAAAACCC
 ATCTACATGCAGAAGGAAGGAGACCCAGTGGCCTATTACCGAAATCTGCAGGACTTCAGCTATGGCAACC
 TGGAGGAAAAAAGAAGAACCTGCCACACTTGCTTACACAATAAGTGCCACTGAGTTGCTAGAAAAACA
 GGCCACACCAAGAGAGCCTGAGCTGCTGTATCAGAATATTGCTGAGCGAGTTAAGAAGTCCCAAGTGA
 GGCTAGTCCACTATAACTTTTGTACCTTACCTAAAAGGCAAGTTGCCCTTCATATGAATCTCGACGCC
 AAAACCAAGACAGAATCAATAAAACCGTTTTATATGGGACTCCCAGAAAATGCTTTTGTGGGGCAGTCAAA
 GCCAGACCACCTTTACTGCAAGCTAAACCGCAATCGGAACCAGACTACCTCGAAGTTCTGGAAAAACAA
 ACTGCAATCAGTCAGCTG

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG217810 representing NM_001161431
Red=Cloning site Green=Tags(s)

MLSGVWFLSVLTVAGILQTESRKTAKDICKIRCLCEEKENVLNINCENKGFTTVSLLQPPQYRIYQLFLN
GNLLTRLYPNEFVNYSNAVTLHLGNGLQEIRPGAFSGLKTLKRLHLNNNKLEVLREDTFLGLESLEYLQ
ADYNYISTIEAGAFSKLNKLVILNDNLLLSPSNVFRFVLLTHLDRGNRLKVMPPFAGVLEHIGGIME
IQLEENPWNCTCDLLPLKAWLDTITVFVGEIVCETPFRLHGKDVTQLTRQDLCPRKSASGDSSQRSSHSD
THVQRLTPTTNPALNPTRAPKASRPPKMRNRPTPRVTVSKDRQSFGPIMVYQTKSPVALTCPSSCVCTSQ
SSDNGLNVNCQERKFTNISDLQPKPTSPKKLYLTGNYLQTVYKNDLLEYSDDLHLGNRIAVIQEGAF
TNLTSRRLYLNGNYLEVLYPSMFDGLQSLQYLYEYNIKEIKPLTFDALINLQLLFLNNLLRSLPDN
IFGGTALTRLNLRNNHFSHLPVKGVLDQLPAFIQIDLQENPWDCTCDIMGLKDWTEHANSPIINEVTCE
SPAKHAGEILKFLGREAI CPENPNLSDGTILSMNHNTDTPRSLSVSPSSYPELHTEVPLSVLILGLLVVF
ILSVCFGAGL FVFVLKRRKGVNVP RNATNL DVSSFQLQYGSYNTETNDKADGHVYNYIPPPVGMQCNP
IYMQKEGDPVAYYRNLQDFSYGNLEEKKEEPATLAYTISATELLEKQATPREPELLYQNI AERVKELPSA
GLVHYNFCTLPKRQFAPSYESRRQNQDRINKTVLYGTPRKCFVQSKPDHPLLQAKPQSEPDYLEVLEKQ
TAISQL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

ACCN:	NM_001161431
ORF Size:	2538 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_001161431.1 , NP_001154903.1
RefSeq Size:	7778 bp
RefSeq ORF:	2541 bp
Locus ID:	245450
UniProt ID:	Q810C0
Cytogenetics:	X A7.1
Gene Summary:	It is involved in synaptogenesis (PubMed:25989451). Promotes excitatory synapse differentiation (By similarity). Suppresses neurite outgrowth (PubMed:14550773). [UniProtKB/Swiss-Prot Function]