

Product datasheet for MR205354

Sh3gl2 (NM_019535) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sh3gl2 (NM_019535) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sh3gl2
Synonyms:	9530001L19Rik; AI120490; AW555077; B930049H17Rik; EEN-B1; Sh3d2a; SH3PA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205354 representing NM_019535 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGTGGCAGGGCTGAAGAAGCAGTCCACAAAGCCACTCAGAAAAGTGAGTGAGAAGGTGGGAGGAG
CGGAAGGCCAACGCTCGATGATGACTTCAAAGAGATGGAGAGGAAAGTGGATGTCACCAGCAGGGCTGT
GATGGAGATAATGACAAAAACGATTGAATACCTCAACCAATCCAGCTTCCAGGGCTAAGCTCAGTATG
ATCAACACCATGTCGAAAATCCGCGCCAAGAGAAGGGGCCAGGCTACCCTCAGGCGGAAGCACTGCTGG
CAGAGGCCATGCTCAAGTTCGGCAGGGAGCTGGGTGATGATTGCAACTTTGGTCTGCTCTCGGTGAGGT
GGGAGAAGCCATGAGGGAGCTCTCGGAGGTCAAGGACTCATTGGACATGGAAGTGAAGCAGAATTCATC
GACCCCTTCAGAATCTTCATGACAAGGATCTGAGGGAGATTCAGCATCATCTGAAAAAGCTGGAAGGCC
GACGCTTAGACTTTGATTATAAGAAGAAGCGACAAGGCAAGATTCAGATGAAGAAGCTCCGCCAAGCTCT
GGAGAAATTCGATGAGTCTAAAGAAATCGCCGAGTCGAGCATGTTCAACCTCTTGGAGATGGATATAGAA
CAGGTGAGCCAGCTCTCCGCACTTGTTCAAGGCTCAGCTGGAGTACCACAAGCAGGCAGTGCAGATCCTGC
AGCAGGTCAGTGTGAGTGGAAAGAAAGAAAGACAAGCTTCATCTCAGCCAAGAAGGGGAATATCAGCC
CAAACACGGATGAGCCTAGAGTTTGCCACTGGAGACAGTACTCAGCCCAACGGGGTCTCTCCACACA
GGCACACCCAAACCTCCAGGTGTCAAAATGGATCAGCCCTGCTGCCGAGCTCTGTATGACTTTGAACCTG
AAAATGAAGGGGAATTGGGTTTTAAAGAGGGCGATATCATCACACTCAATCAGATTGACGAGAAGCTG
GTATGAGGGGATGCTTCATGGCCAGTCTGGCTTTTTCCCATCAACTATGTAGAAATTCTGGTTGCTCTG
CCCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205354 representing NM_019535
Red=Cloning site Green=Tags(s)

MSVAGLKKQFHKATQKVSEKVGGAEGTKLDDDFKEMERKVDVTSRAVMEIMTKTIEYLPNPASRAKLSM
 INTMSKIRGQEKGPYPQAEALLAEAMLKFGRELGDCCNFGPALGEVGEAMRELSEVKDSLDMVEVKQNF I
 DPLQNLHDKDLREIQHHLKKLEGRRLDFDYKKRQGGKIPDEELRQALEKFDESKEIAESSMFNLLEMDIE
 QVSQLSALVQAQLEYHKQAVQIILQQVTVRLEERIRQASSQPRREYQPKPRMSLEFATGDSTQPNGGLSHT
 GTPKPPGVQMDQPCCRALYDFEPENEGELGFKEGDIITLTNQIDENWYEGMLHGQSGFFPINYVEILVAL
 PH

TRTRPLEQKLISEEDLAANDILDYKDDDDKVV

Chromatograms: https://cdn.origene.com/chromatograms/mm9033_d12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_019535

ORF Size: 1056 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_019535.2](#), [NP_062408.2](#)

RefSeq Size: 2817 bp

RefSeq ORF: 1059 bp

Locus ID: 20404

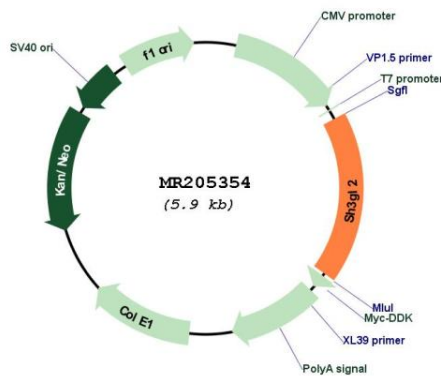
UniProt ID: [Q62420](#)

Cytogenetics: 4 40.23 cM

MW: 40.4 kDa

Gene Summary: Implicated in synaptic vesicle endocytosis. May recruit other proteins to membranes with high curvature. Required for BDNF-dependent dendrite outgrowth (PubMed:21849472). Cooperates with SH3GL2 to mediate BDNF-NTRK2 early endocytic trafficking and signaling from early endosomes (PubMed:21849472).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205354