

Product datasheet for **MC225212**

Sdk2 (NM_172800) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sdk2 (NM_172800) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sdk2
Synonyms: 4632412F08Rik; 5330435L01Rik; mKIAA1514; Sdk-2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225212 representing NM_172800
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTT**CAGCAGCATGTGGAGGCTGCCGCTCTGGACTCTACTGGCCCTGCATCGGATCCACTCGGCCGGG**
CCCAAGATGATGTACCGCATACTTCAAGACGGAGCCAGTGCCGACACAAGTGCATCTGGAAGGGAACCG
CCTGGTGCTCACCTGCATGGCTGAAGGCAGCTGGCCGCTGGAGTTCAAGTGGCTACACAACAATCGGGAG
CTGACCCGGTTCTCGCTGGAGTACAGGTACATGATTACACGCTGGACCCACCCACGCTGGCTTCTACC
GCTGCATCGTGCCTAACCGAATGGGGCCCTGCTACAGCGGCAGACTGAAGTCCAGGTGGCTACATGGG
GAGCTTTGAGGAAGGCGAGAAGCGCCAAAGTGTGAACCATGGAGAAGCTGCTGTCATCAGAGCACCTCGC
ATTTCCAGCTTCCCCCGCCACAGGTGACCTGGTTCCTGACGGACGCAAGATCCCACCCAGCAGCCGCA
TAGCCATCACCTGGAGAACACCCTGGTCATCCTGTCGACGGTGGCTCCCGATGCTGGCCGCTACTACGT
GCAGGCGGTTAATGACAAGAACGGAGACAACAAGACCAGCCAGCCATCACTCTTGCCGTGGAGAATGTT
GGGGACCCGCTGACCCATTGCACCAACCATCATCCCACCAAGAATACCAGTGTGCTGGCTGGGA
CCTCGGAGGTGACCATGGAGTGTGGCCAACGCCAGGCCCTCTCATCAAGCTGCACATTGTGGAAGAA
GGACGGGGCTCCACTCTCCAGTGGCATCAGCGACTACAACCGCAGGCTCACCATCGCCAACCCACGGTC
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CCTACCTCTCGGTGCTGGAGCCACTCAGTTTGTGAGAGCCTGAGAGACATATCACGGCCGAGATGGA
AAAGGTGGTGGACATCCCCTGTGAGCCAAAGGGTACCGCTCCCTCCATCACCTGGTACAAGGACGCT
GCGTTGGTGGAGTGGGAAGCTAACCCGCTTCAAGCAGCGCAGCGATGGCGGCTGCAGATCAGCGCC
TGCTGCCCCGACGACCCGGCATGCTCCAGTCTTGGCCACAATGCAGCTGGCGAGGCCAGACCTCCAC
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GCACCCAGGCCTCCATGGTGTGTGGAGTGACCCACGATCCCAGAGTGACTGTCAGGTACGTGTGGGAGAA
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CCCCAGTGCCCCGGGCTCGGTCAAGTTCAGCGAGCTGACCACTACCTCAGTGAATGTGTCCTGGGATGCC
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TCAGCAAGATTGTGACAGTGGACGTGAAGGGGAACAGCCCACTGTGGCTGAAAGTGAAGGATCTGGCCGA
GGGCATGACGTATCGTTTCCGAATCAAAGCCAAGACCTTCACCTATGGGCTGAGATTGAAGCCAACATC
ACTACGGGCCCTGGAGAAGGTGCCCCAGGACCACGGGAGTACCGATCATCGTTCGCTACAGCTCAGCCA
TTGCCATCCACTGGTCCAGCGGAGATCCTGGCAAAGGGCCATCACGCGCTACGTAATAGAGGCCAGGCC
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CTCCCAGCAGCCCTCCAGTCTGTGCCAGCCAGAAAGCCAGCCCTTTTATGAGGAATGGTGGTTCTT
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GCACCCAGCAAGGCAGCCTCTTCCGGCCCAAGGCCAGCCGGACTCCAACGCCCAAAACCCCGGAATCC
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GGGTTCTCATCCTTCGTTGA
    
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA
    
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Restriction Sites:

Sgfl-Mlul

ACCN:

NM_172800

Insert Size:

6531 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_172800.2](#), [NP_766388.2](#)

RefSeq Size: 6604 bp

RefSeq ORF: 6531 bp

Locus ID: 237979

UniProt ID: [Q6V4S5](#)

Cytogenetics: 11 E2

Gene Summary: Adhesion molecule that promotes lamina-specific synaptic connections in the retina and is specifically required for the formation of neuronal circuits that detect motion (PubMed:26287463). Acts by promoting formation of synapses between two specific retinal cell types: the retinal ganglion cells W3B-RGCs and the excitatory amacrine cells VG3-ACs. Formation of synapses between these two cells plays a key role in detection of motion (PubMed:26287463). Promotes synaptic connectivity via homophilic interactions (PubMed:26287463).[UniProtKB/Swiss-Prot Function]