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Product datasheet for MG224502

Sdk2 (NM_172800) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sdk2 (NM_172800) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sdk2
Synonyms:	4632412F08Rik; 5330435L01Rik; mKIAA1514; Sdk-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG224502 representing NM_172800
Red=Cloning site Blue=ORF Green=Tags(s)

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GCCGCGATCGCC

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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG224502 representing NM_172800
Red=Cloning site Green=Tags(s)

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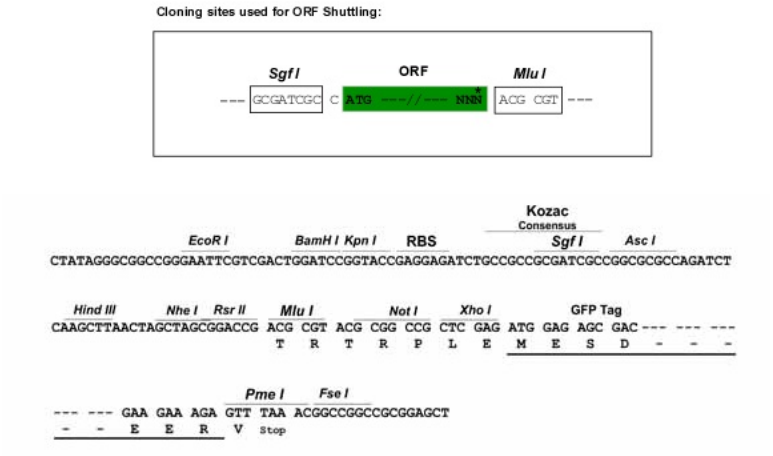
GFSSFV

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1898_g06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172800

ORF Size: 6528 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

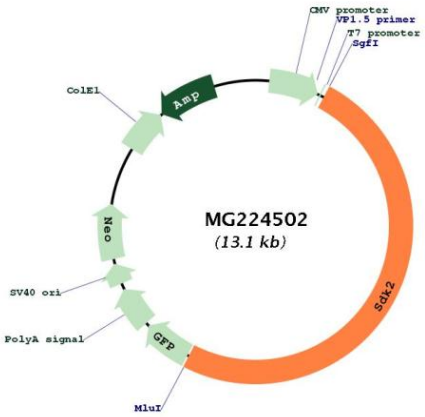
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_172800.3
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]

Product images:



Circular map for MG224502