

Product datasheet for **RC233139**

SAP97 (DLG1) (NM_001204387) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAP97 (DLG1) (NM_001204387) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DLG1
Synonyms:	DLGH1; hdlg; SAP-97; SAP97
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC233139 representing NM_001204387
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAATTACATTTTCGGAACAACACACTTCTATACTCTCGCGCAGTCGAGGAGCAACTACTAGCTCTA
GCCATGGCTCAGCAGGCCAAAGCAGAAACACTGGGCAAAAAGGGCTCGTCAGATGAACTGCAAGCTGA
GCCAGAACCTTACGCTGGCAGCAGATAGTTGCATTTTTCACTCGAAGACACAGCTTTATTGACTGCATC
TCGGTAGCCACCAGCTCCACCCAGGCAAACTCCCCCAGTACTGGTCAACACAGATAGCTTGAAACAC
CAACTTACGTTAATGGCACAGATGCAGATTATGAATATGAAGAAATCACACTTGAAAGGGGAAATTCAGG
GCTTGGTTTCAGCATTGCAGGAGGTACGGACAACCCACACATTGGAGATGACTCAAGTATTTTCATTACC
AAAATTATCACAGGGGAGCAGCCGCCAAGATGGAAGATTGCGGGTCAATGACTGTATATTACGAGTAA
ATGAAGTAGATGTTCTGATGTAACACATAGCAAAGCAGTTGAAGCGTTGAAAGAAGCAGGGTCTATTGT
ACGCTTGTATGTAAAAAGAAGGAAACCAGTGTCAAGAAAAATAATGGAATAAAGCTCATTAAAGGTCT
AAAGGTCTTGGGTTTAGCATTGCTGGAGGTGTTGGAAATCAGCATATTCCTGGGGATAATAGCATCTATG
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AGTGAATAACGTATGTTAGAAGAAGTACTCATGAAGAAGCAGTAACTGCCTTAAAGAACACATCTGAT
TTTGTATTTTGAAGTGGCAAAACCCACAAGTATGTATATGAATGATGGCTATGCACCACCTGATATCA
CCAACCTCTTCTCAGCCTGTTGATAACCATGTTAGCCCATCTTCTTCTTGGGCCAGACACCAGCATC
TCCAGCCAGATACTCCCAAGTTCTAAAGCAGTACTTGGAGATGATGAAATACAAGGGAACCTAGAAAA
TTATTTCTTTCATCGTGGCTCAACGGGCCCTGGTTTCAACATTGTAGGAGGAGAAGATGGAGAAGAAAT
TTATTTCTTTATCTTAGCCGGAGGACCTGCTGATCTAAGTGGAGAGCTCAGAAAAAGGAGATCGTATTAT
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CAGGCTGTCACAATTGTTGCACAATATCGACCTGAAGAATACAGTCGTTTTGAAGCTAAAAATACATGATT
TACGGGAGCAGATGATGAATAGTAGTATTAGTTCAGGGTCAGGTTCTCTTGAAGTACAGGAGGATC
CCTCTATGTCAGAGCCCTTTTGGATTATGACAAGACTAAAGACAGTGGGCTTCCAGTCAGGACTGAAC
TTCAAATTTGGAGATATCTCCATGTTATTAATGCTTCTGATGATGAATGGTGGCAAGCCAGGCAGGTTA
CACCAGATGGTGAGAGCGATGAGGTCCGAGTGATTCCAGTAAACGCAGAGTTGAGAAGAAAGAACGAGC
CCGATTAACAGTGAATTTCAATTCTAAAACGAGAGATAAAGGGGAGATCCCTGACGACATGGGATCA
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TTCCGGCAAAAAGAAAAGCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233139 representing NM_001204387
 Red=Cloning site Green=Tags(s)

MNYIFGNNTLLYSRGSRGGNTSSSHGSAGPKQKHAKKGSDELQAEPEPSRWQQIVAFFTRRHSFIDCI
 SVATSSQTANPPPVLVNTDSLETPTYVNGTDADYEYEEITLERGNGLGFSIAGGTDNPHIGDSSIFIT
 KIITGGAAAQDGRRLRVNDCILRVNEVDVRDVTHSKAVEALKEAGSIVRLVYKRRKPVSEKIMEIKLIKGP
 KGLGFSIAGGVGNQHIPGDNSIYVTKIIEGGAHKDGKLIQIDKLLAVNNVCLEEVTHEEAVTALKNTSD
 FVYLKVAKPTSMYMNDGYAPPDITNSSSQPVDNHVSPSSFLGQTPASPARYSPVSKAVLGDDEITREPRK
 VVLRHGSTGLGFNIVGGEDGEGIFISFILAGGPADLSEGLRKGDRISVNSVDLRAASHEQAAAALKNAG
 QAVTIVAQYRPEEYSRFEAKIHDLRQMMNSSISSGSGSLRTSQKRSLYVRALFDYDKTKDGLPSQGLN
 FKFGLDILHVINASDDEWWQARQVTPDGESDEVGVIPSKRRVEKKERARLKTVKFNSKTRDKGEIPDDMGS
 KGLKHVTSNASDSESSYLILITDEYGCSSKGGQEEYVLSYEPVNNQEVNYPVILGPMKDRINDDLISE
 FPDKFGSCVPHTTRPKRDYEVDRDYHFVTSREQMEKDIQEHKIEAGQYNNHLVGTSVQSVREVAEKGGK
 HCILDVSGNAIKRLQIAQLYPISIFIKPKSMENIMEMNKRLTEEQARKTFERAMKLEQEFTEHFTAIVQG
 DTLEDIYNQVKQIIEEQSGSYIWPVPAKEKL

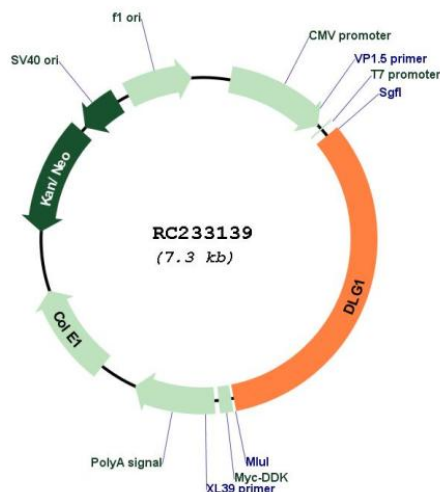
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001204387

ORF Size: 2400 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_001204387.1](#), [NP_001191316.1](#)

RefSeq Size: 4798 bp

RefSeq ORF: 2403 bp

Locus ID: 1739

UniProt ID: [Q12959](#)

Cytogenetics: 3q29

Protein Families: Druggable Genome

Protein Pathways: T cell receptor signaling pathway

MW: 88.9 kDa

Gene Summary: This gene encodes a multi-domain scaffolding protein that is required for normal development. This protein may have a role in septate junction formation, signal transduction, cell proliferation, synaptogenesis and lymphocyte activation. A multitude of transcript variants deriving from alternative splicing and the use of multiple alternate promoter have been observed, including some splice variants that may be specific to brain and other tissues. An upstream uORF may regulate translation at some splice variants of this gene. [provided by RefSeq, Sep 2018]