

Product datasheet for **RC218400**

SAP97 (DLG1) (NM_001098424) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAP97 (DLG1) (NM_001098424) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SAP97
Synonyms:	DLGH1; hdlg; SAP-97; SAP97
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC218400 representing NM_001098424
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGTCCGGAAGCAAGATACCCAGAGAGCATTGCACCTTTTGGAGGAATATCGTTCAAACCTAAGCC
 AAAGTGAAGACAGACAGCTCAGAAGTTCCATAGAACGGGTATTAAACATATTTCCAGAGCAACCTCTTTCA
 GGCTTTAATAGATATTCAGAATTTTATGAAGTGACCTTACTGGATAATCCAAAATGTATAGATCGTTCA
 AAGCCGTCTGAACCAATCAACCTGTGAATACTTGGGAGATTTCCAGCCTTCCAAGCTCTACTGTGACTT
 CAGAGACTGCCAAGCAGCCTTAGCCCTAGTGTAGAGAAATACAGGTATCAGGATGAAGATACACCTCC
 TCAAGAGCATATTTCCCAAAAATCACAATGAAGTGATAGGTCCAGAATGGTTCATGTCTCAGAGAAG
 AACTTATCAGAGATTGAGAATGTCCATGGATTTGTTTCTCATTCTCATATTTACCAATAAAGCCAAACAG
 AAGCTGTTCTTCCCTCTCTCCACTGTCCCTGTGATCCCTGTCCCTGCCAGTCCCTGCTGAGAATACTGT
 CATCTACCCACCATAACACAGGCAAACTCTCCCCAGTACTGGTCAACACAGATAGCTTGGAAACACCA
 ACTTACGTTAATGGCACAGATGCAGATTATGAATATGAAGAAATCACACTTGAAGGGGAAATTCAGGGC
 TTGGTTTCAGCATTGCAGGAGGTACGGACAACCCACACATTGGAGATGACTCAAGTATTTTCATTACCAA
 AATTATCACAGGGGGAGCAGCCGCCAAGATGGAAGATTGCGGGTCAATGACTGTATATTACGAGTAAAT
 GAAGTAGATGTTCTGTGATGTAACACATAGCAAAGCAGTTGAAGCGTTGAAAGAAGCAGGGTCTATTGTAC
 GCTTGTATGTAAGAAAGAAAGCAAGTGTGAGAAAAAATGGAATAAAGCTCATTAAAGGTCCTAA
 AGGTCTTGGGTTTAGCATTGCTGGAGGTGTTGGAATCAGCATATTCCTGGGGATAATAGCATCTATGTA
 ACCAAAAAATGAAGGAGGTGCAGCACATAAGGATGGCAAACCTCAGATTGGAGATAAACTTTTAGCAG
 TGAATAACGTATGTTTGAAGAAGTTACTCATGAAGAAGCAGTAACTGCCTTAAAGAACACATCTGATTT
 TGTATTTGAAAGTGGCAAAACCCACAAGTATGTATATGAATGATGGCTATGCACCACCTGATATCACC
 AACTCTTCTTCTCAGCCTGTTGATAACCATGTTAGCCCATCTTCTTCTTGGGCCAGACACCAGCATCTC
 CAGCCAGATACTCCCGTCTTCTAAAGCAGTACTTGGAGATGATGAAATTAACAAGGGAACCTAGAAAAGT
 TGTTCTTCTCATCGTGGCTCAACGGGCTTGGTTCAACATTGTAGGAGGAGAAGATGGAGAAGGAATATT
 ATTTCTTTATCTTAGCCGGAGGACCTGCTGATCTAAGTGGAGAGCTCAGAAAAGGAGATCGTATTATAT
 CGGTAACAGTGTGACCTCAGAGCTGCTAGTCATGAGCAGGCAGCAGCTGCATTGAAAAATGCTGGCCA
 GGCTGTACAATGTTGCACAATATCGACCTGAAGAATACAGTCGTTTTGAAGCTAAAATACATGATTTA
 CGGGAGCAGATGATGAATAGTAGTATTAGTTCAGGGTCAGGTTCTTTCGAACTAGCCAGAAGCGATCCC
 TCTATGTCAGAGCCCTTTTTGATTATGACAAGACTAAAGACAGTGGGCTTCCAGTCAGGGACTGAACCT
 CAAATTTGGAGATATCCTCCATGTTAATGCTTCTGATGATGAATGGTGGCAAGCCAGGCAGGTTACA
 CCAGATGGTGAGAGCGATGAGGTGCGAGTGATCCCGTAAACGCAGAGTTGAGAAGAAAGAACGAGCCC
 GATTAACAAACAGTGAAATCAATTTCTAAACGAGAGATAAAGGGGAGATCCCTGACGACATGGGATCAAA
 AGGCCTGAAGCATGTAACCTTCAATGCCAGCGATAGTGAAGTAGTTACCGTGGTCAAGAAGAATACGTC
 TTATCTTATGAACCAGTGAATCAACAAGAAGTTAATTACTCGACCAGTATCATATTGGGACCTATGA
 AAGACAGGATAAATGATGACTTGTCTCAGAATTTCTGACAAAATTTGGATCCTGTGTTCTCATAACA
 TAGACCAAAACGAGATTATGAGGTAGTGAAGAGATTATCATTTTGTGACTTCAAGAGAGCAGATGGAA
 AAAGATATCCAGGAACATAAATTCATTGAAGCTGGCCAGTATAACAATCATCTATATGGAACAAGTGTTC
 AGTCTGTACGAGAAGTAGCAGAAAAGGGCAAACTGTATCCTTGATGTGCTGGAATGCCATAAAGAG
 ATTACAGATTGCACAGCTTTACCCTATCTCCATTTTATTAACCCAAATCCATGAAAAATATCATGGAA
 ATGAATAAGCGTCTAACAGAAGAACAAGCCAGAAAAACATTTGAGAGAGCCATGAACTGGAACAGGAGT
 TACTGAACATTTACAGCTATTGTACAGGGGGATACGCTGGAAGACATTTACAACCAAGTGAACAGAT
 CATAGAAGAACAATCTGGTTCTTACATCTGGGTTCCGGCAAAAGAAAAGCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218400 representing NM_001098424
 Red=Cloning site Green=Tags(s)

MPVVRKQDTQRALHLLLEEYRSKLSQTEDRQLRSSIERVINIFQSNLFQALIDIQEFYEVTLTLDNPKCIDRS
 KPSEPIQPVNTWEISSLPSTVTSETLPSSLSPSVEKYRYQDEDTPPQEHISPQITNEVIGPELVHVEK
 NLSEIENVHGFVSHSHISPIKPTAEVLPSPPTVPVIVLPVPAENTVILPTIPQANPPVLVNTDSLETP
 TVVNGTDADYEYEEITLERGNSGLGFSIAGGTDNPHIGDDSSIFITKIIITGGAAAQDGRRLRVNDCILRVN
 EVDVRDVTHSKAVEALKEAGSIVRLYVKRRKPVSEKIMEIKLIKGPKGLGFSIAGGVGNQHIPGDNSIYV
 TKIIEGGAHAKDGKLQIGDKLLAVNNVLEEVTHEEAVTALKNTSDFVYLKVAKPTSMYMNDDGYAPPDIT
 NSSSQPVDNHVSPSSFLGQTPASPARYSPVSKAVLGDDEITREPRKVVLHRGSTGLGFNIIVGGEDGEGIF
 ISFILAGGPADLSGELRKGDRIIISVNSVDLRAASHEQAAAALKNAGQAVTIVAQYRPEEYSRFEAKIHDL
 REQMNSSISSGSGSLRTSQKRSLYVRALFDYDKTKDGLPSQGLNFKFGDILHVINASDDEWWQARQVT
 PDGESDEGVIPSKRRVEKKERARLKTVKFNSKTRDKGEIPDDMGSKGLKHVTSNASDSESSYRQEEYV
 LSYEPVNOQEVNYTRPVIILGPMKDRINDDLISEFPDKFGSCVPHTRPKRDYEVDRDYHFVTSREQME
 KDIQEHKFIEAGQYNNHLYGTSVQSVREVAEKGKHCILDVSGNAIKRLQIAQLYPIISIFIKPKSMENIME
 MNKRLTEEQARKTFERAMKLEQEFTEHFTAIVQGDTLEDIYNQVKQIIEEQSGSYIWWPAKEKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8021_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

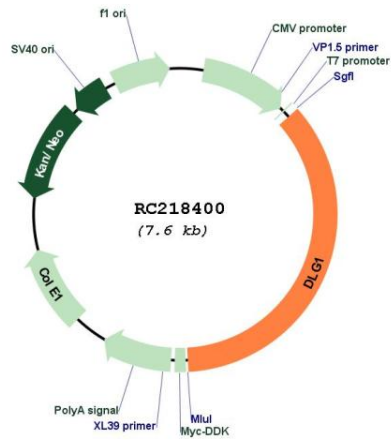


* The last codon before the Stop codon of the ORF

ACCN: NM_001098424

ORF Size:	2712 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_001098424.1 , NP_001091894.1
RefSeq Size:	4968 bp
RefSeq ORF:	2715 bp
Locus ID:	1739
UniProt ID:	Q12959
Cytogenetics:	3q29
Protein Families:	Druggable Genome
Protein Pathways:	T cell receptor signaling pathway
MW:	100.3 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]

Product images:



Circular map for RC218400