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Product datasheet for RC226156

REPS1 (NM_001128617) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	REPS1 (NM_001128617) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	REPS1
Synonyms:	NBIA7; RALBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC226156 representing NM_001128617
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGGCTTAACGCTGAGCGATGCGGAGCAGAAATACTATTCAGATCTCTTCTCCTACTGCGACATTG
AGAGCACCAAGAAGGTGGTGGTCAACGGGCGGGTGCTGGAGCTGTTCCGGGCCGCGCAGCTGCCGAACGA
CGTGGTCCTACAGATCATGGAGCTTTGTGGTGCAACAAGACTTGGTTATTTTGGAAGAAGTCAGTTCTAC
ATTGCTTTGAAACTTGTAGCTGTTGCCCAGTCTGGTTTCCCTTTAAGAGTGGAAAGTATAAATACAGTAA
AGGACCTTCCTCTGCCAAGATTTGTTGCTTCAAAGAATGAACAGGAATCTCGCCATGCAGCCTCATATTC
TTCAGATTCTGAAAATCAAGGGTCGTATTCTGGTGTAATTCCCCCACCACCTGGCAGGGGGCAAGTGAAA
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TAGTTTCACCACAGCAATCCCCACCAACTTCTCCACACACATGGAGGAAGCACAGCCGTCATCCCAGCGG
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CAGATACTCCACCAACCAGTACTCTTTTAACCATGCATCCTGCTTCTGTCCAGGACCAGACAACAGTACG
AACTGTAGCATCAGCTACAACTGCCATTGAAATTCGTAGGCAATCCAGTAGTTATGATGATCCCTGGAAA
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GGAACTCTCAGACTTTGATAAAGATGGTGCATTGACACTGGATGAGTTTTGTGCTGCTTTTCATCTGGTG
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TGGAAGATTCAGCAGATGTTGGGGATCAGCCAGGTGAGGTAGGTTATTCAGGCTCTCCTGCTGAAGCTCC
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ACTGCTATTGTTCATCCAGTTCCCATTCGTATGACTCCAAGCAAAATCCACATGCAGGAAATGGAACTTA
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CTGATAACACTGCACCACCACCTCCCCCTCCAAGGCCACAGCCCTCTCATTCTAGATCATCATCTTTAGA
TATGAATCGGACCTTTACAGTCACCACAGGACAACAACAGGCTGGAGTTGTTGCCCATCCTCCTGCAGTG
CCTCCAAGACCACAGCCCTCACAGGCTCCTGGTCCTGCTGTGCATCGCCCAGTGGATGCCGATGGCCTCA
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AGTATTTGCTGCATCAAATGTAAACGACGAACAAGATGATGAAGCCGAGAAACATCCAGAAGTCCTGCCG
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CAGCTGCTAGTGCTCCTGCCAATGTGAGCAAAGGCACAACACCACTTGCTCCACCACCTAAACCTGTTCG
AAGAAGATTAAAATCAGAAGATGAATTAAGGCCAGAAGTTGATGAACATACACAAAAGACGGGTGTCTTA
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CAATTAGACGTAATAAGGAAACCAACACCGTTTTGGCCAGATTGAATAGCGAATTGCAGCAACAATTAAA
GGATGTTCTTGAGGAGAGAATTTCCCTGGAAGTTCAACTGGAACAACTTCGACCATTCTCTCACCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

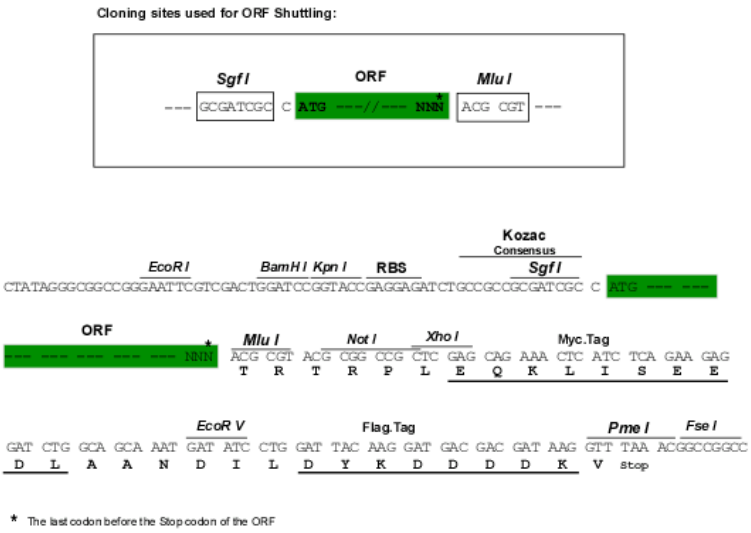
>RC226156 representing NM_001128617
Red=Cloning site Green=Tags(s)

MEGLTLSDAEQKYYSDLFSYCDIESTKKVVVNGRVLELFRAAQLPNDVVLQIMELCGATRLGYFGRSQFY
IALKLVAVAQSGFPLRVESINTVKDLPLPRFVASKNEQESRHAASYSSDSENQGSYSGVIPPPPGRGQVK
KGSVSHDTVQPRTSADAQEPASPVVSPQQSPPTSPHTWRKHSRHPSGGNSERPLAGPGPFWSPFGEAQSG
SSAGDAVWSGHSPPPPQENWVSFADTPPTSTLLTMHPASVQDQTTVRTVASATTAIEIRRQSSSYDDPWK
ITDEQRQYYVNQFKTIQPDLNGFIPGSAAKEFFTKSKLPILELSHIWELSDFDKDGALTLDEFCAAFHLV
VARKNGYDLPEKLPESLMPKLIDLEDSADVGDQPGEVGYSGSPAEAPPSKSPSMPSLNQTWPELNQSSED
TAIVHPVPIRMTPSKIHMQEMELKRTGSDHTNPTSPLLVKPSDLLEENKINSSVKFASGNTVADGYSSSD
SFTSDPEQIGSNVTRQRSHSGTSPDNTAPPPPPPRPQPSHSRSSSLDMNRTFTVTTGQQQAGVVAHPPAV
PPRPQPSQAPGPAVHRPVDADGLITHTSTSPQQIPEQPNFADFSQFEVFAASNVNDEQDDEAEKHPEVLP
AEKASDPASSLRVAKTDSKTEEKTAASAPANVSKGTTPLAPPPKPVRRRLKSEDELRPEVDEHTQKTGVL
AAVLASQPSIPRSVGKDKKAIQASIRRNKETNTVLARLNSELQQQLKDVLEERISLEVQLEQLRPFSHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001128617

ORF Size: 2307 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.

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

RefSeq: NM_001128617.2

RefSeq ORF: 2310 bp

Locus ID: 85021

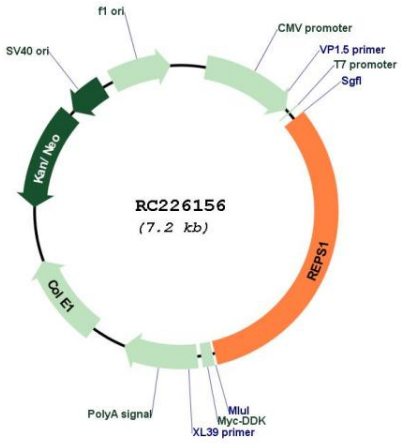
UniProt ID: Q96D71

Cytogenetics: 6q24.1

MW: 83.5 kDa

Gene Summary: This gene encodes a signaling adaptor protein with two EH domains that interacts with proteins that participate in signaling, endocytosis and cytoskeletal changes. The encoded protein has been found in association with intersectin 1 and Src homology 3-domain growth factor receptor-bound 2-like (endophilin) interacting protein 1 when intersectin 1 was isolated from clathrin-coated pits. The encoded protein has also been shown to interact with amphiphysin, a cytoplasmic protein at the surface of synaptic vesicles. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2014]

Product images:



Circular map for RC226156