

Product datasheet for **RC221887**

PSD (NM_002779) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSD (NM_002779) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSD
Synonyms:	EFA6; EFA6A; PSD1; TYL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221887 representing NM_002779 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGCCAGGGTGCCATGCGTCTGCTCGGAAGGCGACTGTGCCATCTCCCACCACGATGCCACGCC
GCTGGCTCCCCGAAGGCCGGTGCCCCAGAGCCCCAGCCAGCATGTATGGCAGCACAGGCTCCTTGCT
ACGGCGAGTGGCAGGTCCAGGTCTCGAGGCCGGAACGGGACGTGTGACAGCACCTGTACACCTCTG
CGTGGCCCCCTCACCCGTGTTGCTCCCTCACCTGGGCACCCTTTACCCACTGGGCAGCCCCAC
CCGGGGCCAGAGCTCTGTGGTCATCTCCGCTTTGTGGAGAAGGCCAGTGTGAGGCCACTGAATGGCT
ACCTGCTCCAGGGGGCTTGAGTCGGAGCTGGGATCTGGGTGGGGTTTCTCCTCCCAGGCCACCCAGCC
CTTGGGCTGGCTCCAACCGGAAGTTACGGCTGGAAGCATCCACATCAGACCCACTCCCCGCCAGAGGAG
GCTCGGCCCTACCTGGCAGCCGGAACCTTGATACATGGGCCCCAGCCCCACCCAGGTTGGAGCAGATGG
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AGAGCAGGCCCCCCATCTCACCTGGGTGGGCTCAAGCAGGGCTCTGGGTGGCTGTGGGCGAGCA
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ACGCGTACGCGGGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221887 representing NM_002779
 Red=Cloning site Green=Tags(s)

MAQGAMRFCSGDCIAISPPRCPRRWLPEGVVPQSPASMYGSTGSLRRVAGPGPRGRELGRVTAPCTPL
 RGPSPRVAPSPWAPSSPTGQPPPGAQSSVVIIRFVEKASVRPLNGLPAPGGLSRSWDLGGVSPRPRTPA
 LGPGSNRKLRLLEASTSDPLPARGGSALPGSRNLVHGPPAPPQVGDGLYSSLPNLGGPPERLATLFGGP
 ADTGFLNQDWTWSSPREVSSHAQRIARAKWEFFYGLDPPSSGAKPPEQAPPSPPGVGSRQSGVAVGRA
 AKYSETDLDTVPLRCYRETDIDEVLAEREEADSAIESQPSSEGGPGTAYPPAPRPGPLPGPHPSLGSNE
 DEDDDEAGGEEDVDEVFEASEGARPGSRMPLKSPVPFLPGTSPSADGPDSFSCVFEAILESHRAGTYSY
 TSLASLEALASPPTQSPFFTFELPPQPPAPRPDPPAPAPLAPLEPDSGTSSAADGPWTQRGEEEEAEAR
 AKLAPGREPPSPCHSEDSLGLGAAPLGSEPLSQLVSDSDSELDSTERLALGSTDTLSNGQKADLEAAQR
 LAKRLYRLDGRKADVARHLGKNDFSKLVAGEYLKFFVFTGMTLDQALRVFLKELALMGETQERERVLA
 HFSQRYFQCNEALSSGDAHTLTCALMLLNTDLHGHNIGKRMTCGDFIGNLEGLNDGGDFPRELLKALY
 SSIKNEKLQWAIDEEELRRSLSELADPNPKVIKRISSGSGSGSPFLDLTPEPGAAYVKHGALVRKVHAD
 PDCRKTTPRGKRGWKSFHGILKGMILYLQKEEYKPGKALSETELKNAISIHHALATRASYSKRPHVFLR
 TADWRVFLFQAPSLEQMQSWITRINVVAAMFSAAPPFAAVSSQKFSRPLLPSAATRLSQEEQVTHEAK
 LKAMASELREHRAAQLGKKGRGKEAEEQRQKEAYLEFEKSRYSTYAALLRVKLGAGEELDAVEAALAQA
 GSTEDGLPPSHSSPSLQPKPSSQPRAQRHSSEPRPGAGSGRRKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8103_c04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_002779

ORF Size: 3072 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_002779.5](#)

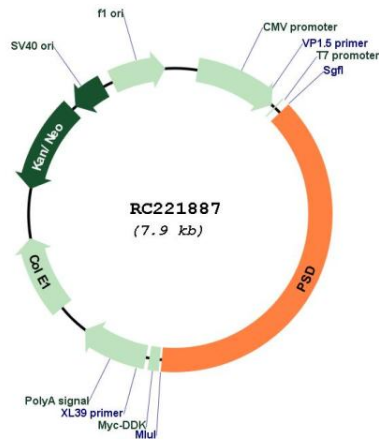
RefSeq Size: 4185 bp

RefSeq ORF: 3075 bp

Locus ID: 5662

UniProt ID: [A5PKW4](#)
 Cytogenetics: 10q24.32
 Protein Pathways: Endocytosis
 MW: 109.5 kDa
 Gene Summary: This gene encodes a Plekstrin homology and SEC7 domains-containing protein that functions as a guanine nucleotide exchange factor. The encoded protein regulates signal transduction by activating ADP-ribosylation factor 6. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]

Product images:



Circular map for RC221887