

Product datasheet for **RG221887**

PSD (NM_002779) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PSD (NM_002779) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PSD
Synonyms: EFA6; EFA6A; PSD1; TYL
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG221887 representing NM_002779
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGGGTGCCATGCGTCTGCTCGGAAGGCGACTGTGCCATCTCCCACCACGATGCCACGCC
GCTGGCTCCCCGAAGGCCGGTGCCCCAGAGCCCCAGCCAGCATGTATGGCAGCACAGGCTCCTTGCT
ACGGCGAGTGGCAGGTCCAGGTCTCGAGGCCGGAACTGGGACGTGTGACAGCACCTGTACACCTCTG
CGTGGCCCCCTCACCCGTGTTGCTCCCTCACCTGGGCACCCTTTACCCACTGGGCAGCCCCAC
CCGGGGCCAGAGCTCTGTGGTCATCTCCGCTTTGTGGAGAAGGCCAGTGTGAGGCCACTGAATGGCT
ACCTGCTCCAGGGGGCTTGAGTCGGAGCTGGGATCTGGGTGGGGTTTCTCCTCCCAGGCCACCCAGCC
CTTGGGCTGGCTCCAACCGGAAGTTACGGCTGGAAGCATCCACATCAGACCCACTCCCCGCCAGAGGAG
GCTCGGCCCTACCTGGCAGCCGGAACCTTGATACATGGGCCCCAGCCCCACCCAGGTTGGAGCAGATGG
CCTTACTCCTCTCTCCCAATGGGCTGGGGGGCCCCCTGAGCGCTGGCCACACTCTTCGGAGGACCT
GCTGACTGGATTCTGAACAGGGGGATACCTGGTCTCCCCCGGGAAGTCTCCTCATGCCAGA
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AGAGCAGGCCCCCCATCTCACCTGGGTGGGCTCAAGCAGGGCTCTGGGTGGCTGTGGGGCAGCA
GCCAAGTACTCCGAGACAGACTGGACACGGTGCCCTGAGGTGCTACCGGAGACTGACATCGATGAGG
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GCCAAGCTGGCCCCAGGGAGGGAGCCCCCTAGTCCCTGCCACTCAGAGGACAGCCTTGGGCTGGGGGCAG
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 CTGAAGGCCATGGCAAGTGAAGTGCAGTGCAGGAGCACCAGGGCCCGCCAGCTGGGCAAGAAGGGCCGGGCAAGG
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 GCTGCTTCGGGTCAAGCTGAAGGCAGGCAGTGAAGAGCTGGATGCAGTGGAGGCAGCACTGGCCAGGCC
 GGGAGCACAGAGGATGGACTCCCTCCTTCTCACTCCAGTCCCTCCCTGCAGCCCAACCCCTCCAGCCAGC
 CCCGGGCTCAGCGTCACAGCTCAGAGCCTCGGCCAGGGCAGGCAGTGGCGGCGGAAGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221887 representing NM_002779
 Red=Cloning site Green=Tags(s)

MAQGAMRFCEGDCAI SPPRCPRRWL PEGPVPQSPASMYGSTGSL LRRVAGPGRGRELGRV TAPCTPL
 RGPPSPRVAPSPWAPSSPTGQPPGAQSSVVI FRFVEKASVRPLNGLPAPGGLSRSWDLGGVSPRPPTPA
 LGPGSNRKLRL EASDPLPARGGSALPGSRNLVHGPPAPPQVGADGLYSSLPNGLGGPPERLATLFGGP
 ADTGFLNQDWTWSSPREVSSHAQRIARAKWEFFYGLDPPSSGAKPPEQAPPSPPGVGSRQSGVAVGRA
 AKYSETDLDTVPLRCYRETDIDEVLAEREEADSAIESQPSSEGGPPTAYPPAPRPGPLPGPHPSLGSNE
 DEDDDEAGGEEDVDEVFEASEGARPGSRMPLKSPVPFLPGTSPSADGPDSFSCVFEAILESHRAKGTSY
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 AKLAPGREPPSPCHSEDSLGLGAAPLGSEPLSQLVSDSDSELDSTERLALGSTDTLSNGQKADLEAAQR
 LAKRLYRLDGRKADVARHLGKNDFSKLVAGEYLKFFVFTGMTLDQALRVFLKELALMGETQERERVLA
 HFSQRYFQCNP EALSSEDGAHTLTCALMLLNTDLHGHNI GKRMTCGDFIGNLEGLNDGGDFPRELLKALY
 SSIKNEKLQWAI DEEELRRSLSELADPNPKVIKRI SGGSGSGSSPFLDLTPEPGA AAVYKHGALVRKVHAD
 PDCRKT PRGRGWKSFHGILKGMILYLQKEEYKPKALSETELKNAISIH HALATRASDYSKRPHVFLR
 TADWRVFLFQAPSLEQM QS WITRINVAAMF SAPPFPAAVSSQKFSRPLLP SAAATRLSQEEQVRTHEAK
 LKAMASELREHRAAQLGKKGRGKEAEEQRQKEAYLEFEKSRYSTYAALLRVKLGAGSEELDAVEAALAQA
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TRTRPLE - GFP Tag - V

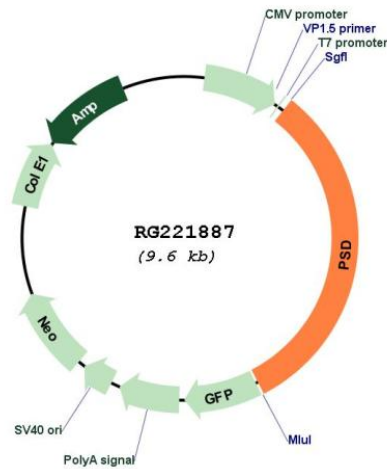
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



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:	<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:	<u>NM_002779.5</u>
RefSeq Size:	4185 bp
RefSeq ORF:	3075 bp
Locus ID:	5662
UniProt ID:	<u>A5PKW4</u>
Cytogenetics:	10q24.32
Protein Pathways:	Endocytosis
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]