

## Product datasheet for **RG234648**

### PSD (NM\_001270966) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSD (NM_001270966) 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)



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**ORF Nucleotide Sequence:**

>RG234648 representing NM\_001270966  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCTCTCAAGTCACCTGTGCCCTTTCTACCTGGGACGAGCCCTCGGCTGATGGCCCTGACTCTTTCA  
 GTTGTGTGTTTGAAGCCATCCTGGAGTACACCGGGCCAAAGGCACCTCCTATACCGCCTCGCCTCGCT  
 GGAGGCCTTGGCCTCACCTGGCCCAACCCAGAGCCCTTCTTACCTTTGAGCTGCCTCCCAACCCCT  
 GCACCCCGGCCGACCCACCAGCTCCCGCCCACTTGGCCCTCTTGAACCGGATTCTGGTACCAGCTCTG  
 CTGCTGATGGTCTTGGACACAGAGAGGGGAGGAGGAGGAGGCAGAGGCCAGGCCAAGCTGGCCCCAGG  
 GAGGGAGCCCTAGTCCCTGCCACTCAGAGGACAGCCTTGGGCTGGGGGAGCAGCCCTTGGCAGCGAA  
 CCACCCCTGAGCCAGCTGGTGTCCGACTCAGACTCAGAGCTGGACAGCACAGAGCGGCTGGCCCTGGGAA  
 GCACAGACACCTGTCCAATGGGAGAAAGCGGACCTGGAGGCTGCGCAGCGCTGGCCAAGAGGCTGTA  
 CCGACTAGATGGCTTCAAGGAGCGATGTGGCCCGCACCTGGGCAAGAACAATGACTTCAGCAAAGCTG  
 GTGGCTGGGGAGTACCTCAAGTTCTTGTCTTACGGGCATGACTCTGGACCAAGCTCTCAGGGTGTTC  
 TGAAGGAGCTGGCCTTAATGGGTGAGACCCAGGAACGAGAGCGCGTGTGGCCCACTTCTCCAGCGATA  
 CTTCCAGTGAATCCTGAAGCCCTGTCTCAGAGGACGGCGCCACACGCTGACCTGTGCCTCATGCTG  
 CTCAACACGGATCTCCACGGCCATAACATCGGGAAGCGCATGACCTGCGGGGACTTCATCGGGAACCTGG  
 AGGGCCTCAATGATGGCGGCGACTTCCCTAGGGAGCTGCTCAAGGCCTTGTACAGCTCCATCAAGAAATGA  
 GAAGCTGCAGTGGGCCATAGACGAGGAGGAGCTGAGACGCTCTCTGTCTGAGTTGGCCGACCCCAACCC  
 AAGGTCATCAAGCGGATCAGCGGGGCGAGTGGCAGTGGCTCCAGCCCTTCTCGACCTGACTCCCGAGC  
 CTGGGGCTGCCGTCTACAAGCACGGGGCCCTGGTGCAGAAAGTGCACGACAGCCCTGACTGCAGGAAGAC  
 ACCTCGGGGCAAGCGGGGCTGGAAGAGCTTCCACGGGATCCTCAAGGGCATGATCCTCTACCTGCAGAA  
 GAGGAGTACAAGCCTGGGAAGGCCCTTTCAGAGACGGAGCTCAAGAATGCCATCAGCATCCACCATGCC  
 TGGCCACTCGTGCCAGTACTACAGCAAGAGGCCCCACGCTTTCTACCTGCGCACAGCTGACTGGCGGGT  
 CTTCTCTTCCAGGCCCGAGCCTGGAGCAGATGCAGTCTGGATCACTCGCATCAATGTAGTAGCCGCT  
 ATGTTCTCTGCGCCCCCTTCCAGCTGCTGTTAGCTCCCAAAGAAGTTAGCCGCCCTCTCTGCCCA  
 GCGCTGCCACCCGCTCTCCAGGAGGAGCAGGTGCGGACCCACGAGGCCAAGCTGAAGGCCATGGCAAG  
 TGAGCTGCGGGAGCACCGGGCCCGCCAGCTGGGCAAGAAGGGCCGGGCAAGGAGGCTGAAGAGCAGCGG  
 CAGAAGGAGGCCACCTGGAGTTTGAAGAAATCCCCTACAGCACCTATGCAGCGTCTCGGGTCAAGC  
 TGAAGGCAGGCAGTGAAGAGCTGGATGCAGTGGAGGCAGCACTGGCCAGGCCGGGAGCACAGAGGATGG  
 ACTCCCTCCTTCTCACTCCAGTCCCTCCCTGCAGCCAAACCCCTCCAGCCAGCCCGGGCTCAGCGTCA  
 AGCTCAGAGCCTCGGCCAGGGGACAGCAGTGGCGGGCGGAAGCCC

**ACGCGT**ACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234648 representing NM\_001270966  
 Red=Cloning site Green=Tags(s)

MPLKSPVPFLPGTSPSADGPDFSCVFEAILESHRAKGTSYTSLASLEALASPGPTQSPFFTFELPPQPP  
 APRPDPPAPAPLAPLEPDSGTSSAADGPWTQRGEEEEAEARAKLAPGREPPSPCHSEDSLGLGAAPLGSE  
 PPLSQLVSDSELSTERLALGSTDITL SNGQKADLEAAQRLAKRLYRLDGFVKADVARHLGKNNDKSKL  
 VAGEYLKFFVFTGMTLDQALRVFLKELALMGETQERERVLAHFSQRYFQCNPEALSSEDGAHTLTCALML  
 LNTDLHGHNIGKRMTGDFIGNLEGLNDGGDFPRELLKALYSSIKNEKLQWAIDEEELRRSLSELADPNP  
 KVIKRISSGSGSSPFLDLTPEPGAAYKHGALVRKVHADPDCRKTTPRGKRGWKSFHGILKGMILYLQK  
 EYKPGKALSETELKNAISIHHALATRASDYSKRPHVFLRTADWRVFLFQAPSLQMQSWITRINVVAA  
 MFSAPPFPAAVSSQKFSRPLLPAAATRLSQEEQVTHEAKLKAMASELREHRAAQLGKKGRGKEAEEQR  
 QKEAYLEFEKSRYSTYAALLRVKLGAGSEELDAVEAALAQAGSTEDGLPSSHSSPSLQPKPSSQPRAQRH  
 SSEPRPGAGSRRKP

**TRTRPLE** – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_001270966

ORF Size: 1935 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\\_001270966.1](#), [NP\\_001257895.1](#)

RefSeq Size: 3382 bp

RefSeq ORF: 1938 bp

Locus ID: 5662

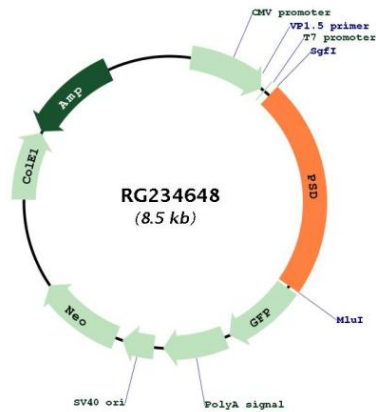
UniProt ID: [A5PKW4](#)

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]

**Product images:**



Circular map for RG234648