

Product datasheet for **RG220354**

PSD3 (NM_206909) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSD3 (NM_206909) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PSD3
Synonyms:	EFA6D; EFA6R; HCA67
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220354 representing NM_206909
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCTCTTCTTGGTGTCTGTATGGTTGCTGCAATGCTGGGGTAAAAACAACACGGCTAGAAGCTCATT
 CTGAAATGGGAGCACTGAAATTTTGGAAAAGGAGACCCAGAAAATCTCAGTAATGGTACCAGCAGCAA
 TGTGGAAGCAGCCAAAAGGTTGGCCAAAACGCCTTTATCAGCTGGACAGATTCAAAAGATCAGATGTTGCA
 AAACACCTTGGCAAGAACAACGAATTTAGCAAAGTGTGCAAGAAGATATCTGAAGTTTTTTGATTTTA
 CAGGAATGACGCTGGATCAGTCACTCAGGTATTTCTTTAAAGCATTCTCTCTTGTGGGAGAACTCAAGA
 ACGAGAGAGATTTTAACTACTTCTCCAATAGATATTTTTATTGTAACCCAGATACCATTGCTTCACAA
 GATGGAGTCCATTGCCTTACCTGTGCAATAATGCTTCTTAATACCGATCTACATGGCCACAATATTGGAA
 AGAAGATGACCTGTCAGGAGTTCATTGCAAATCTGCAAGGGTAAATGAGGGTGTGATTTCTCCAAGGA
 TCTGCTGAAAGCTCTGTACAACCAATCAAGAATGAGAAGCTTGAATGGGCAGTAGATGTAAGAGAAA
 AAAAAGTCTCCCTCAGAAAGTACTGAGGAGAAAGCTAACGGAACACATCCAAAGACCATCAGTCGTATTG
 GAAGTACTACTAACCATTTTTGGACATTCCTCATGATCCAAATGCTGCTGTGTACAAAAGTGGATTCTT
 GGCTCGGAAAATTCATGCAGATATGGATGGAAAGAAGACTCCAAGAGGAAAACGAGGATGGAAAACCTTT
 TATGCTGTACTGAAGGGAACAGTTCTTTACTTGCAAAAGGATGAATACAAGCCAGAAAAGGCCTTGTCTG
 AAGAGGACTTGAAAAACGCTGTGAGTGTGCACCACGCATTGGCATCCAAGGCCACGGACTATGAGAAGAA
 ACCAAACGTGTTTAACTTAAACTGCCGACTGGAGGGTCTTGCCTTTTCAAACCTCAGAGCCAGAGGAA
 ATGCAAGGGTGGATAAACAAAATCAATTTGTGTGCAGCTGTATTTCTGCACCACCATTTCCAGCAGCAA
 TCGGCTCTCAGAAGAAGTTTAGCCGCCACTTCTGCCTGCCACTACAACAAAAGTCTCAGGAGGAGCA
 ACTGAAGTCACATGAAAGTAAGCTGAAGCAGATCACACCGAGCTGGCCGAGCACCCTCATATCCCCC
 GACAAGAAGTCAAGCCAAGGACGTCGATGAGTACAACTGAAAGACCACTATCTGGAGTTTGAGAAAA
 CCCGCTATGAAATGTATGTCAGCATTCTCAAGGAAGGAGGCAAAGAGCTACTGAGTAACGATGAAAGCGA
 GGCTGCAGGACTGAAGAAGTCGCACTCGAGTCCTCGCTGAACCCGGATACTTCTCCAATCACTGCCAAA
 GTCAAGCGTAACGTGTCAGAGAGGAAGGATCACCGACCTGAAACACCAAGCATTAAAGCAAAAAGTTACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220354 representing NM_206909
 Red=Cloning site Green=Tags(s)

MGSSWCLYGCCNAGVKTTRLEAHSEMSTEILEKETPENLSNGTSSNVEAAKRLAKRLYQLDRFKRSDVA
 KHLGKNNEFSKLVAAEYLKFFDFTGMTLDQSLRYFFKAFSLVGETQERERVL IHF SNRYFYCNPDTIASQ
 DGVHCLTCAIMLLNTDLHGHNIGKMTQCQEFIANLQGVNEGVDVSKDLLKALYNSIKNEKLEWAVDDEEK
 KKSPSESTEKANGTHPKTISRIGSTTNPFLDIPHPNAAVYKSGFLARKIHADMDGKKTPRGKRGWKT
 YAVLKGTVLYLQKDEYKPEKALSEEDLKNVSVHHALASKATDYEKPNVFKLKTADWRVLLFQTQSPEE
 MQGWINKINCVAAVFSAPFPAAIGSQKFSRPLLPAATTKLSQEEQLKSHEKSLKQITTELAEHRSYPP
 DKKVKAKDVDEYKLDHYLEFEKTRYEMYVSILKEGGKELL SNDESEAGLKKSHSSPSLNPDTSPITAK
 VKRNVSERKDRPETPSIKQKVT

TRTRPLE - GFP Tag - V

Restriction Sites:

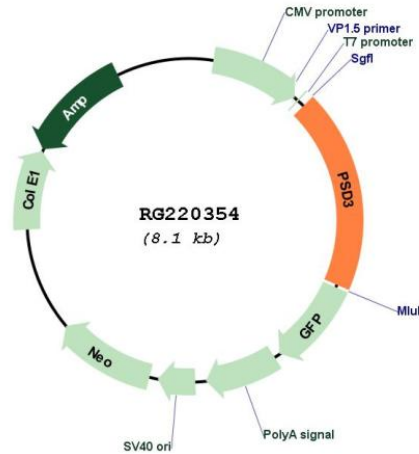
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_206909

ORF Size: 1539 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_206909.2](#), [NP_996792.1](#)

RefSeq Size: 6822 bp

RefSeq ORF: 1542 bp

Locus ID: 23362

UniProt ID: [Q9NYI0](#)

Cytogenetics: 8p22

Protein Pathways: Endocytosis

Gene Summary: Guanine nucleotide exchange factor for ARF6.[UniProtKB/Swiss-Prot Function]