

Product datasheet for **RG220303**

PSD3 (NM_015310) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PSD3 (NM_015310) 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) |
| ORF Nucleotide Sequence: | >RG220303 representing NM_015310 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGGAAGGAGCGCAGCGCCAGAGACATTTGTTGGGTGAACAATGCATCTGCACATCCCAGAGTG
TTGCCAAGGCCAAATATGAATTTTTATTTGGCAGATCTGAAGGGAAAGCTCCAGATACTAGTGATCATGG
AGGAAGCACTTTACTCCCACAAATGTCACAAATGAATTTCCAGAATATGGGACCATGGAGGAAGGTGGA
GAAGGCCAAGGGCTTCTCTGGAATTTGATGGTGAGGCTCTGCCATGCCACCCACAAGAGCAGCAGGGTG
TCCAGCCTCTTACTGGCTGCCACTCTGGGCTCGACAGTGTACAGAAGGACCAAAAGATGTCAGAGAGGC
CCCTCTCAAAGTCATCTCAAGGAACAAAGTTTACAGCCATTGACTCTTTGATTTGAGCTCTGAAAGCC
ACAGAAGCCAGAATCATTCCGGAACATTACAGGCTACAAGGTACTGGACCAAGATGCTGTTTTCTAGTT
TTTCAGTTCAGCAGGTGGAAAAAGAGCTGGACACTGCCAGTCGTAACACAGAGAGTCAACAAAACGCT
CCCTGTGGCCAAAAAATTTACCAGAAATACCTCTTTCAGCTGAAGTAACAACGGAGGAAAGTTTTTAT
TTGAGCATCCAGAAAGATCTCACCGCGCTGTTAACTGGAGACTCAGGCAGAGATTTCCAGATAATGA
ATAATGGGAGGAAAGGGCTGTCTGTGTGCAGGAGCCATCTTGTCTTTGGCCTCCCTCGGGAGCTCAGC
AGTGACCTGCCACTCTGCAGGCAGTGTGGTTTCTTGAAGAGCAGAGGTCTGCTCTTGGGAGAGAGCAC
CCAGGGGATGTGATCGAAGCAGCTCCATGGGACGCCAGCCGCGGTCAAACATGTGGAATTTCAAGGAG
TGGAAATCTGTGGACAGGAGGAGACAAGAGAGAGACCCAGCATCCTATAGATTTTGAGACATCACTGCA
AAGAACAGCCTCTCCTGACAGCAAGAGTCTTCCAAAGTGCCACGCCATCTCATCTCATCAGCTGGTTTG
TGTAATCAAGTAGTTTAACTGAGAATGTTGGGATGAATCCTGGAAAGCTCCTTCAGAGAGGCCTGGCA
CTAGCTCGGGACATTTCCCTGTGCGTCTTGATGAGAGTGGAGAGGATGAAGTCTTCTACAGGAAAA
CAAACAGCATCTTGAGAAGACACCTAAACCAGAGAGAGACAGGAAAGGATCAGCGAACAAGAGGAGCAC
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GCCTGATAGCTATTTAGCTTTGAAATGCCCTCACTCCAATGATACAACAGCGCATTAAAGAAGGTGGT



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CAGTTCCTGGAGAGGACATCAGGGGGAGGACATCAGGATATCCTGAGTGTGTCTGCAGATGGTGGCATCG
 TGATGGGCTATTCTAGTGGCGTACCAATGGGCTGAATGATGCCAGCGACTCCATCTACACGAAAGGCAC
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 AAGCTCTGTACAACCAATCAAGAATGAGAAGCTTGAATGGGCAGTAGATGATGAAGAGAAAAAAAGTC
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 GGTCAAAGCCAAGGACGTCGATGAGTACAACTGAAAGACCCTATCTGGAGTTTGAAGAAAACCCGCTAT
 GAAATGTATGTCAGCATTCTCAAGGAAGGAGGCAAGAGCTACTGAGTAACGATGAAAGCGAGGCTGCAG
 GACTGAAGAAGTCGACTCGAGTCTTCGCTGAACCCGGATACTTCTCCAATCACTGCCAAAGTCAAGCG
 TAACGTGTCAGAGAGGAAGGATCACCGACTGAAACACCAAGCATTAAAGCAAAAAGTTACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220303 representing NM_015310
 Red=Cloning site Green=Tags(s)

MEGRSAAAEFTVWVNNASHSQSVAKAKYEFVFRSEGGKAPDTS DHGGSTLLPPNVTNEFPYEGTMEEGG
 EGLRASLEFDGEALPCHPQEQQGVQPLTGCHSGLDSVTEGPKDVREAPSQSHLKEQSLQPIDSLISALKA
 TEARIISGTLQATKVLQDAVSSFSVQQVEKELDTASRKTQRVNKTL PAGQKNLPEIPLSAEVTTEESFY
 LSIQKDLTALLTGDTQAEISQIMNNGRKGAVCVQEPSCPLASLGSSAVTCHSAGSVGFLKEQRSALGREH
 PGGCDRSSMGRPGRVKHVEFQGV EILWTGGDKRETQHPIDFETSLQRTASPDSKESKVPRLISSAGL
 CNSSSLTENVWDESWKAPSERPGTSSGTFSPVRLDESGEDEVFLQENKQHLEKTPKPERDRERISEQEEH
 VKGEDEDILGPGYTEDSTDVYSSQFETILDNTSLYYSAESLETLYSEPDSYFSFEMPLTPMIQQRKEGG
 QFLERTSGGGHQDILSVSADGGIVMGYSSGVTNGLNDASDSIYTKGTPEIAFWGSNAGVKTTRLEAHSEM
 GSTEILEKETPENL SNGTSSNVEAAKRLAKRLYQLDRFKRSDVAKHLGKNNF SKLVAEEYLKFFDFGTGM
 TLDQSLRYFFKAFSLVGETQERERVLIHFSNRIFYCNPDTIASQDGVHCLTCAIMLLNTDLHGHNIGKMM
 TCQEFIANLQGVNEGVDVSKDLLKALYNSIKNEKLEWAVDDEEKKKSPSESTEKANGTHPKTISRIGST
 TNPFLLDIPHPNAAVYKSGFLARKIHADMDGKTPRGKRGWKTFYAVLKGTVLYLQKDEYKPEKALSEED
 LKNAVSVHHALASKATDYEEKPNVFKLKTADWRVLLFQTQSPEEMQGWINKINCVAAVFSAPPFPAAIGS
 QKKFSRPLL PATTTKLSQEEQLKSHEKSKLQITTELAEHRSYPPDKVKAKDVDEYKLDHYLEFEKTRY
 EMYVSILKEGGKELLSNDESEAAGLKKSHSSPSLNPDTSPITAKVKRNVSERKDRHPETPSIKQKVT

TRTRPLE - GFP Tag - V

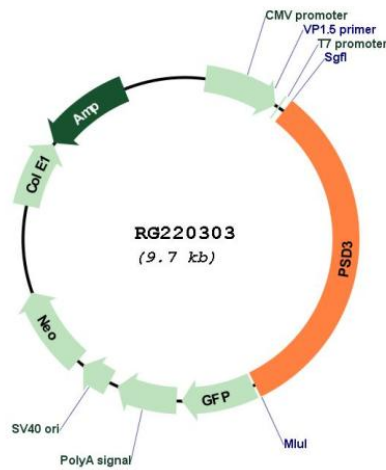
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_015310

ORF Size: 3141 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](#)

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| 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: | NM_015310.4 |
| RefSeq Size: | 11687 bp |
| RefSeq ORF: | 3144 bp |
| Locus ID: | 23362 |
| UniProt ID: | Q9NYI0 |
| Cytogenetics: | 8p22 |
| Domains: | Sec7, PH |
| Protein Pathways: | Endocytosis |
| Gene Summary: | Guanine nucleotide exchange factor for ARF6.[UniProtKB/Swiss-Prot Function] |