

Product datasheet for **RG207720**

PSD2 (NM_032289) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PSD2
Synonyms:	EFA6C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG207720 representing NM_032289
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGCCGGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAGGACAAGCTCTTATCTGCAGTGCCTGAGGAAGGCGATGCCACCCGTGACCCCGGTCCAGAGC
CTGAAGAGGAGCCAGGGGTCCGGAATGGGATGGCCAGTGAGGGCCTGAACAGCAGCCTCTGCAGCCAGG
GCACGAGCGAAGGGGCACCCAGCGGACACTGAGGAACCCACGAAGGACCCAGATGTGGCCTTCCATGGC
CTCAGCCTTGGCCTCTCTCAACCAATGGCCTAGCCCTGGGGCCAGACTTGAACATTCTGGAAGATTAG
CGGAGTCCAGGCCCTGGAGGGCTGGCGTGTGGCAGAGGGGACAATGCTTCCAGGAGCCTCTACCCAGA
TGCTGAGGACCCCTCAGCTGGGGTTGGATGGTCCCGGGAGCCAGATGTGCGGGATGGCTTCAGCGCCACG
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TGAGCCTCACGGATGAGAGCGACAGCTGCGTCAGCTTCGAGGCCCCCTCACACCCCTCATCCAGCAGCG
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CCAACGGGTGCCAGGGGTCAGTGAAGCTGCTCATCGGCTGGCAGCCGCTCTCTACCACTCGAGGGCTT
CCAGCGCTGTGATGTGGCCGCGAGCTGGCAAGAACAACAGTATTAGCAGGCTGGTGGCCGGGAGTAC
CTCAGTTTCTCGACTTCTCGGGCTTACTGAGCAGGAGCACTCAGAACATTCTGAAGGCCTTCCCGC
TGATGGGGGAGACACAAGAGCGTGAGCGGCTCTCACACACTTCTCCGCGGCTACTGCCAGTGAACCC
TGATGACAGCACTTCGGAAGATGGGATCCACACGCTCACCTGTGCCCTGATGCTGCTCAACACGGACCTG
CACGGCCACAACATTGGCAAAAAGATGTCTGTGAGCAATTATTGCCAAGTGGACAGCTGAATGATG
GCCAAGACTTTGCCAAGACCTGTGAAGACCCCTTACAACCTCCATCAAGAATGAAAAGCTGGAATGGGC
CATTGATGAGGATGAGCTGAGGAAATCCCTGTCTGAGCTGGTGGATGACAAGTTCGGGACAGGCACGAAG
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ACAAGCACGGCGTCTGACCCGGAAGACTCACGCTGACATGGATGGCAAGAGGACGCCCCGTGGGAGGCG
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GACAAAGCTCTATCGAGGGTGACCTGAAGAACGCCATTGCGTGCATCACGCTCTGGCCACCAGGGCT
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ACCGAGCAAGGAAGAAATGCTGTCTGGATCCTCAGGATCAACCTGGTGGCAGCCATCTTCTGCCCCG
GCCTTCCCAGCCGCTGTGAGTCCATGAAGAAGTTCTGTGCGCCCTGCTGCCCTCTGCACACCCGCC
TCTGCCAGGAGGAGCAACTGCGGTCTCATGAGAATAAGTTGAGGCAGCTGACTGCGGAGCTGGCCGAACA
CAGGTGTACCCAGTCGAGAGGGGCATCAAGTCCAAGGAGGCCGAGGAGTACCGGTTGAAGGAGCACTAT
CTCACCTTCGAGAAAAGCCGTTATGAGACCTATATCCACCTCCTGGCTATGAAAATCAAAGTGGGCTCAG
ATGATCTGGAGCGGATTGAGGCCGGCTGGCCACTCTGGAAGGGGATGACCTTCTCTCCGAAGACACA
TTCAAGCCCTGCCCTCAGCCAGGGCCATGTGACTGGCAGCAAAACCACAAGGATGCCACTGGCCTGAT
ACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207720 representing NM_032289

Red=Cloning site Green=Tags(s)

MEEDKLLSAVPEEGDATRDPGPEPEEEPGVRNGMASEGLNSSLCSPGHERRGTPADTEEPTKDPDVAFHG
LSLGLSLTNGLALGPDNLIEDSAESRPWRAGVLAEGDNASRSLYPDAEDPQLGLDGPGEVDVRDGF SAT
FEKILESELLRGTQYSSLDLGLSLTDESDSCVSFEAPLTPLIQQRARDSPEPGAGLGIGDMAFEGDMG
AAGGDGELGSPLRRSISRRSENVLSRLSLMAMPNGFHEDGPQGGDEDDDEEDTDKLLNSADPSLKD
GLSDSDSELSSSEGLEPGSADPLANGCQGVSEAAHRLARRLYHLEGFQRCDVARQLGKNNF SRLVAGEY
LSFFDFSGLTLDGALRTFLKAFPLMGETQERERVLTHFSRRYCQCNPDSTSEDGIHTLTALMLLNTDL
HGHNIGKKMSCQQFIANLDQLNDGQDFAKDLLKTL YNSIKNEKLEWAIDEDELKSLSELVDDKFGTGK
KVTRILDGGNPFLDVPQALSATTYKHGVLTRKTHADMDGKRTPRGRGWKKFYAVLKGITILYLQKDEYRP
DKALSEGDLKNAIRVHHALATRASDYSKKSNVLKLTADWRVFLFQAPSKKEMLSWILRINLVAAIF SAP
AFPAAVSSMKKFCRPLLPSCCTTRL CQEEQLRSHENKLRQLTAELAEHRCHPVERGIKSKEAEYRLKEHY
LTFEKSRYETIYIHLAMKIKVGSDDLERIEARLATLEGDDPSLRKTHSSPALSQGHVTGSKTTKDATGPD
T

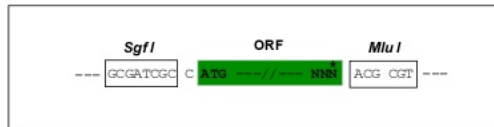
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



CTATAGGGCGGGCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGTACGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

ACCN:

NM_032289

ORF Size:

2313 bp

OTI Disclaimer:

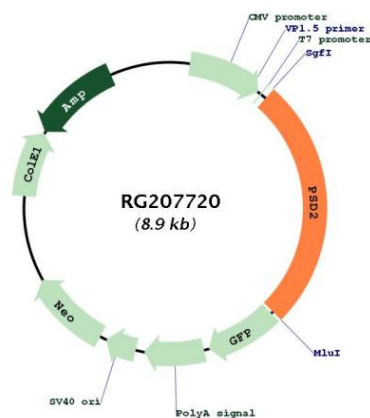
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_032289.1 , NP_115665.1
RefSeq Size:	4528 bp
RefSeq ORF:	2316 bp
Locus ID:	84249
UniProt ID:	Q9BQI7
Cytogenetics:	5q31.2
Domains:	Sec7, PH
Protein Pathways:	Endocytosis

Product images:



Circular map for RG207720