

## Product datasheet for **MG211434**

### Psd4 (NM\_177611) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Psd4 (NM_177611) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Psd4
Synonyms:	BC046518; EFA6B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211434 representing NM_177611 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGGGGACCACTCAGACCCATGGAATGTCTCAATATTTGCTTGGGAAGACAACCTACAACCCTGTC  
CAGAAGCATATCCAAGTAAATACATGGCCATCCAGGCCCTTCTGAACCTTGCCAGGAACATACCTGTCC  
GTTTGACCCCCAGAATCTGCCAGACCTGATGCTCCTCATGGTAACTCTGGTGTGGAGTCCACTCATCTA  
GAAAATGCTTGGTGCAGGTACAGGCTAGGCAGGCCTCAGCATCACTGAGGTCCTGGAGGACAACAGCT  
CTTTGGGGAGTCCACAGCAAACAGAGCTCATCCACCCAGGTGGTATTCTGGGCTGGCATCCTGCAGGC  
CCAGATGTGTCTGGACCTGGAGGAGGAGCTGGAGAAAACAGAGGGACTCAGAGCAGAACTCAGGTGC  
TGCATCCCACCACCTCTAAGGACCTCCTTGGAGATGAAGGTCTGAGCCCCAGCCGACCCGAGGAGGATG  
AAGACTCTGGAGATGACAGCAGTGGGCCTGAGGAGGAGAACCAGACCTGGCCAAGGGAGAAAAATCCAGG  
CTCCTCCCTAGAGTGGGGTGTGAGGAGGACAGTATCTTCTTTGATAATCCCCTCTTCTGGAGAGCCCT  
TGCTCAGACACCAGCACTGAAGGAGAATGCTTTTCTGGGGTACCCGAATCCCACCCAGACATGAAGA  
CCTGGCATCAGAGCCCTCAAACCTGACTCTCCTCTCCAAAAGGCACAGGGCTCTGGAGGCAAGAAAA  
TGAGCTGGATTTGGGGAGCGACTGCTGACCATGGTGGGTGTTCCACCCTCCATTCCCTGTGCCTTCC  
TATAAGATGCACCCCTGCTTGGCCTTAGGATCCACTGAAGGGATCCCACGGTACCTCCTGATCAGGAGG  
GTGAGACTTCTTGTGAAGATGATCTTGGCCATGGCTCACCTAAAGCACCCCTTGTAGACCATGAATTGAT  
CCAAGAATCAGATAACTTTGAATTTGACCTTAGACCTGCCACAACACATCCTGTACAGCCTTGGGGTTCA  
CAGACATCCCAAAGCCTTTCTGACCTGACTCAACCCATACTTGAGGACCTGCAGAGAGAAGATCCTTCCA  
GGTCCCAGGAACTCTTATCTCCAGAACAGAGGTGAGAGGGATGCTGGCTGTTTCCAGGAGCCCGTGT  
CTGCACTTTGGCCCCCTGGGGAGCCAAACCTCTTACTGGAGCCTAACTGCCAGAATCTGAGGGTAGA  
GGCTCTGGCCCCAGCCAGCCAGTGTCTTCCAGGATAGCAGCCACGGGTTCTGCTGCACAGCCCCA  
AGTGGCCACAAGATGCCTCACACCTTCTCCAGAAGGATAGATCAGAGTTGAGCTCCCTAAAGGAAGAGGA  
GACAGAGGAGTCCCAAGCCTGAGGCAGGAGGCAGAATGTGAAGATACATCCAGAAGTGAAGATGCTTCA



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GCCAACCAGCACCATGTTCACTTGGCTTCTGCAGAAGGGCTTCTGAGAGCCCCATGCCCAAGCTCAAT  
 CTCCAGAGGAAGGCTGGAGGCCATCATCGTCTAGAGAGAAGTTGGCTAATGACATCAGAAATGACAAGGG  
 AGCATGGAACCTAGCCCTGCGCCTCTATCAACTGAATGGTTTTCGGAAGTCTGAAGTAGCTGCCACCTA  
 CGCAAGAACAAATGACTTCAGCAGGGCTGTAGCCGAGGCCACTTGTCTTTCTCCAGTTCGAAGGTCAGA  
 GCCTGGACAGAGCCCTCCGTGGTTTTCTCCAGGCCCTGGTGTCTAGTGGAGAGACTCAGGAGCGGGAACG  
 AATTCTCTACCAGTTTTCCAAACGTTTTCCATTACTGCAATCCTGGAGCCTTCCCCCTCAGTAGATTCTGTT  
 CACACGTTGACCTGTGCAATCATGTCTTAAACACAGACCTACATGGGCAGAACATTGGCAAGGCATGA  
 GCTGTCTAGGAATTTGTAACCAACTTGAATGGCCTGCAGGATGGCAGGAACTTCCCCAAAGAGCTGCTGAA  
 GGCCCTCTACTGGTCTATCCGCAGTGAGAAGCTCGAATGGGCTATAGATGAAGAAGATGCAGACAGACCC  
 GAGAAGGACCAACCCTCTCCCTCAGCTGGCAAGATAAGCAGCCCCCTTCTGCAGATGGCTCAGGATCCCA  
 CGATGCCACCTATAAGCAGGGCATTCTGGCTCGGAAGATGCATCACATTGCTGATGGCAAGAAGACTCC  
 ATGGGGCAAACGAGGCTGGAAGATGTTTACACCTTACTGAGAGGGATGGTCTCTACTTCTGAAGGGA  
 GAGGGCAATGGCTGGATGGAGAGATTTGGTAGGACATATGGTGGATGAGCCTGTGGGAGTACACCACT  
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 GCCACCCACTCAGCACCTCTTTCCGGCTGCAGTGGGCTCCCAACGCAGATTCTGAGGCCCATCTCTGC  
 CCATGAGCCCCTGCAGAGCTCCCTGGAGGAGCAGCATCGATCCCACGAGAACTGCCTGGATGCTGCCTC  
 AGATGACCTGTTGGATTTGCAGAGGAACCTGCCGGAGCGACGGGGCCGACGCCGCGAGCTGGAGGAATAC  
 CGCTTACGGAAGGAGTATCTGGAGCACGAGAAAACCTCGATATGAGACCTACGTACAGCTTCTGGTGGCC  
 GCCTACACTTCCCTTTGGGGACCTGGCTCTGTGGGAAGATCAGCTTGGGAAGGAAACTGACGGTTCTCA  
 GGAGCCCAGGCCAAGCCTGAAGAAGTCCCACTCAAGCCCATCACTGCACCAGGAGGAGGCCCCACCACA  
 GCCAAGGTGAAACGCAACATCTCAGAGCGCAGAACCTACCGGAAGATCATTCCCAAGAGGAACCGCAATC  
 AGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG211434 representing NM\_177611  
 Red=Cloning site Green=Tags(s)

MMGDHLRPMELNICLEDNLQPCPEAYPSEIHGHPGPSEPCQEHTCFDPPESARPDAPHGNSGVESTHL  
 ENCLVQVQARQASASLRSLIEDNSSLGSPQQNQSSSTQVVFAGILQAQMCVLDLEEELEKTEGLRAELRC  
 CIPPPSKDLLGDEGLSPSRPEEDEDSDSSGPEEENQTWPREKIPGSSLEWGAEECSIFFDNPLFLESP  
 CSDTSTEGEFCFSWGYPNSHPMKTWHQSPQTLDSPLQKGTGLWRQENELDLGSDTADHGGCSTPPFPVPS  
 YKMHPCLALGSTEGDPTVPPDQEGETSCEDDLGHGSPKAPFVDHEL IQESDNFEFDLRPATHTHPVQPWGS  
 QTSQSLSDLTQPILEDLQREDPSRSQETLISQNRGERDAGCFQEPVFCTLAPWGSQTSLLLEPNCPSEGR  
 GSGPQPSPVSSQDSSPRVLLHSPKWPQDASHLLQKDRSELSSLKEEETEEVPSLRQEAECEDTSRSEDAS  
 ANQHHVHLASAELPESPMPQAQSP EEGWRPSSSREKLANDIRNDKGAWNLAALRLYLNGFRKSEVA AHL  
 RKNNDFSRAVAEAYLSFFQFEGQSLDRALRGFLQALVLSGETQERERILYQF SKRFHYCNPGAFPSVDSV  
 HTLTCAIMLLNTDLHGQNI GKSMSCQEFVTNLNGLQDGRNFKELLKALYWSIRSEKLEWAIDEEDADRP  
 EKDQPPSPSAGKISSPFLQMAQDPTMPTYKQGILARKMHIIADGKKTWPWGRGWMFHTLLRGMVLYFLKG  
 EGQWLDGESLVGHMVDPEVGVHHS LASPATHYTKKPHVFLRTADWRLYLFQAPTAKEMASWIARINLAA  
 ATHSAPPPFAAVGSQRRFVRPILPMSPVQSSLEEQRSHENCLDAASDLDLQRNLPERRGRSRELEEY  
 RLRKEYLEHEKTRYETYVQLLVARLHFPLGDLALWEDQLGKETDGSQEP RPSLKKSHSSPSLHQEEAPT  
 AKVKRNI SERRTYRKIIPKRRNQL

TRTRPLE - GFP Tag - V

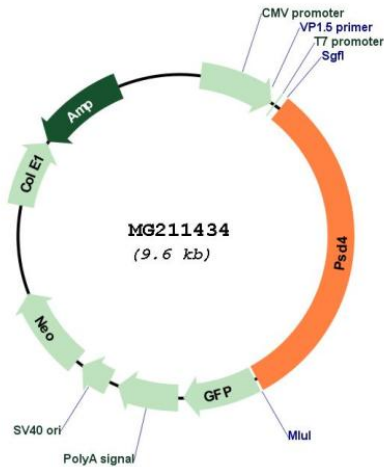
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_177611

ORF Size: 3015 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_177611.4</a>
<b>RefSeq Size:</b>	4700 bp
<b>RefSeq ORF:</b>	3018 bp
<b>Locus ID:</b>	215632
<b>UniProt ID:</b>	<a href="#">Q8BLR5</a>
<b>Cytogenetics:</b>	2 A3
<b>Gene Summary:</b>	Guanine nucleotide exchange factor for ARF6 and ARL14/ARF7. Through ARL14 activation, controls the movement of MHC class II-containing vesicles along the actin cytoskeleton in dendritic cells. Involved in membrane recycling. Interacts with several phosphatidylinositol phosphate species, including phosphatidylinositol 3,4-bisphosphate, phosphatidylinositol 3,5-bisphosphate and phosphatidylinositol 4,5-bisphosphate (By similarity).[UniProtKB/Swiss-Prot Function]