

Product datasheet for **MR211434**

Psd4 (NM_177611) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Psd4
Synonyms:	BC046518; EFA6B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR211434 representing NM_177611
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGATGGGGGACCCTCAGACCCATGGAATGTCTCAATATTTGCTTGAAGACAACCTACAACCTGTCT
 CAGAAGCATATCCAAGTAAATACATGGCCATCCAGGCCCTTCTGAACCTTGCCAGGAACATACCTGTCC
 GTTTGACCCCCAGAATCTGCCAGACCTGATGCTCCTCATGGTAACTCTGGTGTGGAGTCCACTCATCTA
 GAAACTGCTTGGTGCAGGTACAGGCTAGGCAGGCCTCAGCATCACTGAGGTCACTGGAGGACAACAGCT
 CTTTGGGGAGTCCACAGCAAAACAGAGCTCATCCACCCAGGTGGTATTCTGGGCTGGCATCCTGCAGGC
 CCAGATGTGTGCTGGACCTGGAGGAGGAGCTGGAGAAAACAGAGGGACTCAGAGCAGAATCAGGTGC
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 AAGACTCTGGAGATGACAGCAGTGGCCTGAGGAGGAGAACCAGACCTGGCCAAGGGAGAAAATCCAGG
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 TGCTCAGACACCAGCACTGAAGGAGAATGCTTTTCTGGGGTACCCGAATCCACCCAGACATGAAGA
 CCTGGCATCAGAGCCCTCAAATCTGGACTCTCCTCTCAAAAAGGCACAGGGCTCTGGAGGCAAGAAAA
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 CGCTTACGGAAGGAGTATCTGGAGCAGGAAAACCTCGATATGAGACCTACGTACAGCTTCTGGTGGCCC
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 GGAGCCCAGGCCAAGCCTGAAGAACTCCCACTCAAGCCCATCACTGCACAGGAGGAGGCCCCACGACA
 GCCAAGGTGAACGCAACATCTCAGAGCGCAGAACCTACCGGAAGATCATTCCCAAGAGGAACCGCAATC
 AGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211434 representing NM_177611

Red=Cloning site Green=Tags(s)

MMGDHLRPMDECLNICLEDNLQPCPEAYPSEIHGHPGPSEPCQEHTCPFDPPESARPDAPHNGSGVESTHL
ENCLVQVQARQASASLRSLEDNSSLSPQQNQSSSTQVVFWAGILQAQMCVLDLEEELEKTEGLRAELRC
CIPPPSKDLLGDEGLSPSRPEEDEDSDGDDSSGPEEENQWTWPREKIPGSSLEWGAEEDESIFFDNPLFLESP
CSDTSTEGECFSWGYPNSHPMKMTWHQSPQTLDSPLQKGTGLWRQENELDLGSDTADHGGCSTPPFPVPS
YKMHPCLALGSTEGDPTVPPDQEGETSCEDDLGHGSPKAPFVDHELIQESDNFEFDLRPATTHPVQPWGS
QTSQSLSDLTPQILEDLQREDPSRSQETLISQNRQDEADAGCFQEPVFCTLAPWGSQTLLELPCNCPSEGR
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ANQHVVHLASAEGLEPSPMQAQSPGEEGWRPSSSREKLANDIRNKKGAWNLLRLYQLNGFRKSEVAHLL
RKNNDFSRAVAEAYLSFFQFEGQSLDRALRGFLQALVLSGETQERERILYQFSKRFHYCNPGAFPSVDSV
HTLTCAIMLLNTLDHGQNIKGSMSQCFVTNLNGLQDGRNFPKELLKALYWSIRSEKLEWAIDEEDADRP
EKDQSPSPSAGKISSPFLQMAQDPTMPTYKQGILARKMMHHIADGKKTWPGKRGKWMFHTLLRGMVLYFLKG
EGQWLDGESLVGHMVDPEVGVVHLSASPATHYTKKPHVFLRTADWRLYLFQAPTAKEMASWIARINLAA
ATHSAPPFFPAAVGSGRRFVRLILPMSVPVQSSLEEQHRSHENCLDAASDLDLLQRNLPERRGRSRELEEY
RLRKEYLEHEKTRTYETIKVLPARLHFPLGDLLALWEDQLGKETDGSQEPRPSLKSHSSPSLHQEEAPT
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TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms:

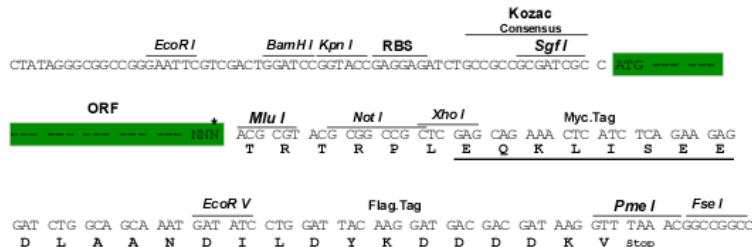
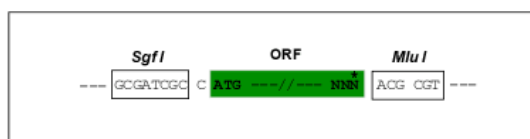
https://cdn.origene.com/chromatograms/mm9047_e12.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:

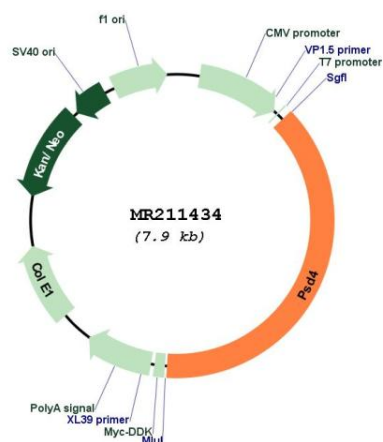
NM_177611

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
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_177611.4
RefSeq Size:	4700 bp
RefSeq ORF:	3018 bp
Locus ID:	215632
UniProt ID:	Q8BLR5
Cytogenetics:	2 A3
MW:	113.2 kDa
Gene Summary:	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]

Product images:



Circular map for MR211434