

Product datasheet for MR231733

Ppfia2 (NM_001205341) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppfia2 (NM_001205341) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppfia2
Synonyms:	5330438O12; B230207K17Rik; E130120L08Rik; mKIAA4112
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR231733 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGTGTGAAGTGATGCCACGATTAACGAGGACACCCCAATGAGCCAACGGGGTCCCAAAGCAGTG
GCTCCGACTCGGACTCCCATTTTGGCAACTCATGGTCAATATGCTGGATGAAAGGGACCGCTACTGGA
CACACTCCGAGAGACCCAGGAGAGCCTCTCACTGCCAGCAAAGGCTCCAGGATGTCATCTATGACAGA
GATTCCTCCAGAGACAGCTGAATTCAGCCCTACCTCAGGACATCGAATCCCTAACAGGAGGGCTGACTG
GTTCTAAGGGGGTGTATCCACCGGAGTTTGTCTGACTGACTAAAGAGTTGAATGCTTGCCGTGAACAACT
TCTAGAAAAGGAAGAAGAAATCTCAGAGCTGAAAGCCGAAAGAAACAACAAGACTGTTACTGGAACAC
TTGGAGTGCCTTGTGTCCCGACATGAACGGTCACTAAGAATGACGGTGGTCAAGCGGCAAGCCCAGTCTC
CCTCTGGAGTGTCCAGTGAAGTGGAGGTTCTCAAGGCACTGAAATCTTTGTTTGAACACCACAAAGCCTT
GGATGAAAAGGTAAGGGAGCGACTGAGGGTTTCTTTAGAAAGAGTCTCTGCACTGGAAGAGGAACTAGCT
GCAGCTAATCAGGAGATTGTTGCCTTGCCTGAGCAAAATGTTCAATTCAAAGGAAAATGGTATCAAGTG
AGGGGTCCACGGAGTCAGAGCATCTTGAAGGAATGGAAGCAGGCCAGAAAGTTTCAAGAAAGCGTCTATC
CAATGGCTCCATAGATTCGACAGATGACACCAGCCAAATCGTCGAGCTGCAAGAATTGCTTGAGAAGCAA
AACTATGAAATGGCCCAAATGAAAGAAGCTTAAACAGCTCTCTCTCCCGGGTGGGAGAGGTGGAACAAG
AAGCAGAGACAGCAAGAAGGACCTCATTAAAACAGAAGAAATGAACACAAAATATCAAAGGGACATCCG
AGAGGCCATGGCTCAGAAGGAAGATATGGAAGAAAGAATCACAACCTCTGGAGAAGCGTTACCTGAGTGCT
CAGAGAGAATCTACCTCCATTGATGATGAATGATAAATAGAAAATGAATTGGCGAACAAGGAAGCCA
TCTTGCAGCAGATGGAAGAAAAAACAGGCAATTGCAAGAGCGTCTTGAAGTGGCTGAGCAAAAGTTACA
GCAGACCATGAGAAAAGCTGAACTTTACCTGAAGTAGAGGCTGAACTTGCTCAGAGAATTGCAGCCCTA
ACAAAGGCTGAAGAGAGGCATGGAATATTGAAGAAGCTATGAGACACCTCGAGGGCCAACCTGAAGAGA
AGAATCAAGAACCTCAAAGAGCTAGACAAAGGGAGAAAATGAATGAAGAGCATAATAAGAGATTATCGGA
TACGGTGGACAGGCTTCTGACAGAATCCAATGAGCGCCTGCAACTACACCTGAAGGAAAGGATGGCTGCT



[View online »](#)

TTGGAAGAGAAGAATGTTTTGATTCAAGAATCAGAAAACCTTCAGAAAAATCTTGAAGAGTCCTTACATG
ATAAGGAAAGATTAGCAGAAGAAATCGAGAAGCTGAGGTCTGAACCTTGATCAAATGAAAAAGAGAACAGG
TTCTCTAATTGAACCCACTATATCAAGAACTCATATAGACACCTCCACTGAGTTGCGGTATTCAAGTTGGG
TCCCTTGAGACAGCCAGTCTGATTACAGAACCACTAAAGTAATACGAAGACCAAGGAGAGGCCGCATGG
GTGTGCGAAGAGATGAACCAAAGGTGAAATCCCTTGGAGATCATGAGTGGAAACAGAACTCAGCAAATTGG
AGTACTAGGAAGCCACCCTTTGAAAAGTGACACTGAAATGTCTGATATTGATGATGATGACAGAGAAACA
ATTTTTAGCTCAATGGATCTTCTCTCTCCAAGTGGCCATTCTGATGCCAGACTCTAGCTATGATGCTTC
AAGAACAATTGGATGCAATCAATAAAGAAATAAGACTAATTCAAGAAGAAAAGGAATCGACAGAATTGCG
TGCTGAAGAAAATTGAGAATAGAGTGGCTAGTGTAAAGCTTAGAAGGGCTGAATTTGGCGAGGGTCCATCCA
GGTACCTCCATCACTGCCTCTGTACAGCTTCACTACTGGCCAGTTCATCTCCCCAAGTGGACACTCAA
CGCCAAAGCTTACACCAAGAAGCCCTGCCAGGGAAATGGACCGCATGGGAGTGATGACCCTGCCAAGTGA
TCTAAGGAAACATCGGAGAAAGATTGCAGTGGTGAAGAAGATGGACGGGAGGATAAAGCCACAATTA
TGCGAGACTTCTCTCCCCAACACCCAGAGCCGTCAGAATGACTCACACCTTACCATCTTCTACCACA
ATGATGCCCGGAGCAGTTTATCTGCCTCTCTTGGCCAGACAGTCTTGGGCTTGGCAGTGCCAATAGCAG
CCAAGATTCTCTCCAAAAGCCCAAGAAGAAAGGAATCAAGTCTTCAATTGGGCGCTTATTTGGGAAA
AAAGAGAAGGCTCGACTCGGGCAGCTTCGAGGCTTCATGGAGACAGAAGCTGCAGCACAGGAATCCCTGG
GCTTAGGCAAACTTGAAGTCAAGCTGAAAAGGACAGAAGGCTGAAGAAAAGCATGAACCTTCTGAAGA
AGCTCGTAGAAAAGGATTACCTTTGCCAGTGGGATGGACCCACCGTGGTTGCGTGGCTGGAGCTCTGG
CTGGGAATGCCAGCTTGGTACGTGGCAGCATGCAGAGCCAACGTGAAAAGTGGTGCATCATGTCAGCGT
TATCGGACACTGAAATCCAAAGGGAGATTGGAATCAGCAACCTCTGCACCGCTTAAAGCTCAGGCTAGC
TATCCAAGAGATGGTTTCTCTACCAGCCCTTCAGCGCTCCGACATCGCGTACTCCTTCAGGCAATGTG
TGGTGACCCATGAAGAAATGAAAAATCTGACAGCTCCAGCAAAAACGAAAGAATCTGAGGAAGGAAAGT
GGGCCAGTGTCCGGTTTTTCTACAGACCCTGGCTTATGGAGATATGAACCACGAGTGGATTGGAATGA
ATGGCTTCCCAGCTGGGGTTACCTCAATACAGAAGTTACTTTATGGAATGCTTGGTTGATGCAAGAATG
TTAGACCCTCACAAAAAGGATCTTCGTGTCCATTTAAAAATGGTGGATAGTTTCCATCGAACAAAGT
TACAGTATGGAATTATGTGCTTGAAAAGATTGAATTATGACAGAAAAGAACTAGAGAGAAGACGAGAAGC
AAGTCAACATGAAATAAAGATGTTTTAGTGTGGAGCAATGATCGAGTTATTCGCTGGATACAAGCAATT
GGACTTCGGGAATATGCAAAACAACATTCTTGGAGTGGCGTGCATGGCTCACTTATAGCCCTGGATGAGA
ACTTTGACTACAGCAGCTTGGCTCTATTGTTGCAGATTCCAACACAGAACACCCAGGCAAGGCAGATTCT
TGAACGTGAGTACAACAACCTCTTGGCCCTGGGAACTGAGCGGAGACTGGATGAAAGTGACGACAAGAAT
TTCAGACGGGATCAACCTGGCGAAGGCAGTTCCTCCTCGTGAAGTTCATGGAATCAGCATGATGCCTG
GGTCTCAGAAACATTACCAGCTGGATTAGGTTGACCACAACGTCTGGGCACTCCAGGAAAATGACGAC
AGACGTTGCTTCATCAAGACTGCAGAGGTTAGACAACCTCACTGTTTCGCACATACTCATGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231733 protein sequence
 Red=Cloning site Green=Tags(s)

MMCEVMP TINEDTPMSQRGSQSSGSDSDSHFEQLMVNMLDERDRLLDTLRETQESLSLAQQRLQDVIYDR
 DSLQRQLNSALPQDIESLTGGLTGSKGADPPEFAALTKELNACREQLLEKEEEISELKAERNRLLLEH
 LECLVSRHERSLRMTVVKRQAQSPSGVSSEVEVLKALKSLFEHHKALDEKVRERLRLVSLERVSAL EEEL
 AANQEIVALREQNVHIQRKMVSSEGSTESEHLEGMEAGQKVHEKRLSNGSIDSTDDTSQIVELQELLEKQ
 NYEMAQMKERLTALSSRVGEVEQEAETARKDLIKTEEMNTKYQRDIREAMAQKEDMEERITTL EKRYLSA
 QRESTS IHDMNDKLENELANKEAILRQMEEKNRQLQERLELAEQKLQQTMRKAETLPEVEAE LAQR IAAL
 TKAEERHGNI EERMRLHLEGQLEEKNQELQRARQREKMNEEHNKRLSDTVDRLLTESNERLQLHLKERMAA
 LEEKNVL IQESENFRKNLEESLHDKERL AEEIEKLRSELQMKMRTGSLIEPTISRTHIDTSTELRYSVG
 SLVDSQSDYRRTTKVIRRRPRRGRMGVRRDEPKVKSLGDHEWNRTQQIGVLGSHPFESDTEMSDIDDDDDRET
 IFSSMDLLSPSGHSDAQT LAMMLQEQLDAINKEIRLIQEEKESTELRAEEIENRVASVSL EGNLNRVHP
 GTSITASVTASSLASSPPSGHSTPKLTPRSPAREMDRMGVM TLP SDLRKHRRKIAVVEEDGREDKATIK
 CETSPPTPRAVRMTH TLPSSYHNDARSSL SASLEPDSLGLGSANSSQDSLHKAPKKKGIKSSIGRLF GK
 KEKARLGQLRGFMET EAAAEQESLGLGKLTQA EKDRRLKKKHELLEEARRKL PFAQWDGPTVVAWLELW
 LGMPAWYVAACRANVKSGAIMSALSDTEIQREIGISNPLHRLKRLAIQEMVSLTSPSAPPTSRTPSGNV
 WYTHEEMENLTAPAKTKESEEGSWAQC PVFLQTLAYGDMNHEWIGNEWLP SGLPQYRSYFMECLVDARM
 LDHLTKKDLRVLK MVD SFHRTSLQY GIMCLKRLNYDRKELERRREASQHEIKDVLVWSNDRVIRWIQAI
 GLREYANNILESGVHGSLIALDENFDYSS LALLQIPTQNTQARQILEREYNNLLALGTERRLDESDDKN
 FRRGSTWRRQFP PREVHGISMMPGSSETLPAGFRLTTTSGQSRKMTTDVASSRLQRLDNSTVRYTSC

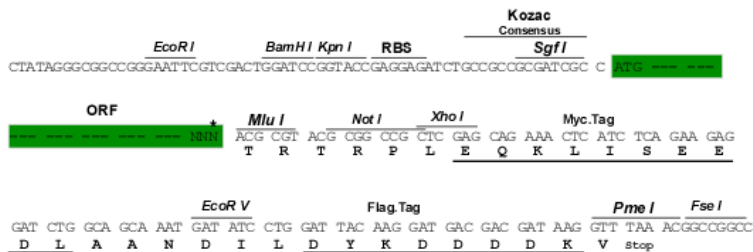
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



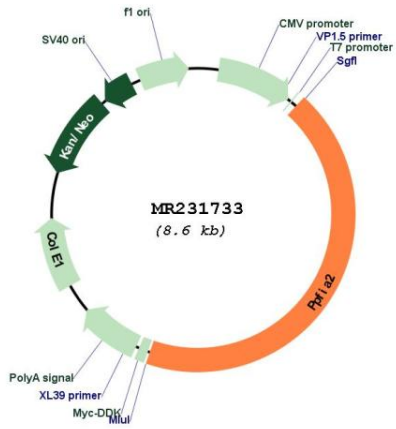
* The last codon before the Stop codon of the ORF

ACCN: NM_001205341

ORF Size: 3771 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:	<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_001205341.1 , NP_001192270.1
RefSeq Size:	6454 bp
RefSeq ORF:	3774 bp
Locus ID:	327814
Cytogenetics:	10 D1
MW:	143.3 kDa
Gene Summary:	Alters PTPRF cellular localization and induces PTPRF clustering. May regulate the disassembly of focal adhesions. May localize receptor-like tyrosine phosphatases type 2A at specific sites on the plasma membrane, possibly regulating their interaction with the extracellular environment and their association with substrates (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR231733