

Product datasheet for **MG211706**

Pkp4 (BC082578) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pkp4 (BC082578) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pkp4
Synonyms:	5031422I09Rik; 9430019K17Rik; Armrp; p0071
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211706 representing BC082578 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGCCCGCCCTGAACAGGGCTCACTGGTGGAGGAGGGGCAACCACAGACCCACCAGGAAGCTGTCTCCA
CTGGCCAGGCATGGAACCCGAGACCACAGCCACCACTATTCTAGCTTCCGTGAAGGAGCAGGAGCTTCA
GTTTCAACGACTACCCGAGAAGTGAAGTGGAAAGGCAGATTGTTGCCAGTCAGCTAGAAAGATGTAGG
CTTGGAGCAGAATCGCCAAGCATCGCCAGCACCAGCTCAACTGAAAAGTCATTTCTGGAGATCAACAG
ATGTGCCAAATCCTGGTGTGAGCAAACCTAGAGTTTCTGACACTATTCATCCCAACAATATCTCATCAG
GACAGAGCCAGAACAGGGGACCCTCTACTCACCAGAACAGACTTCTCTCCATGAAAGTGAGGGATCGTTG
GGAAACTCAAGAAGTTCAACACAGATGAATTTACTCTGACAGTGGGTACCAGGAAGCAGGGAGTTTCC
ACAACAGCCAAACCGTGAACAAGGCAGACAGCAGACGATCCATTCACAGGATCAACAAGTAACCATGT
GGTGAGGACTTCAAGAGCTGAAGGACAAACACTGGTTCAGCCATCAGTAGCCAATCGGGCCATGCGGAGA
GTTAGTTCAGTTCATCTAGAGCACAGTCTCCTTCTTATGTTACCAGCACAGGCGTGTCTCCTTCAAGGG
GGTCACTGAGAACTTCTCTGGGTAGTGGATTTGGCTCTCCATCAGTGACGGACTCCCGACCTCTGAACCC
CAGTGCTTACTCCTCCAGCACGCTCCCTGCACAGCGGGCCGCTCTCCATACTCACAGAGACCCGCTCC
CCAACAGCCGTGCGCCGGTTCGGTCTGTCACCTCCCGCAGACCTCCAATCCCAACGGACCACTCCCTC
AGTACCAGACCACCAGGGTGGGTCCCACTGACCCTGACTGATGCCAGACTCGAGTAGCTTCCCCC
ATCCAAAGGCCAGGTGGGTTCATCGTCCCCGAAACGCTCTGGGATGACCGCCGTACCACAGCACCTGGGA
CCTTCACTGCAAAGGACTGTTTCATGACATGGACCAATTTGGACAGCAGCAGTATGACATTTATGAAAGGA
TGGTTCACCTCGCCAGACAGCCTGACAGGCTTACGGAGTTCCTATGCCAGTCAGCATAGTCAGCTTGG
GCAAGAGTCCGTTCACTGTGTCTCCTGACTTGACATCACTCCTATCTATGAAGGGAGGACCTACTAC
AGTCCAGTGTACCGCAGCCAAACCACGGGACCGTGGAGTCCAGGGTCCAGAGCAGCATTGTATCGCA
CAGGCTCAGTAGGATTGGAAATCTACAAAGGACATCCAGCCAGCGAAGCACCTTACATACCAAAGAAA
TAACTATGCCCTGAACACAGCAGCTACCTATGCGGAGCCCTACAGGCCAGTTCAGTACCGAGTCCAAG



[View online >](#)

TGCAGCTATAACAGGCTGCAGCACACAGGGCCAGCTGATGACGGTGCCACAAGATCCCCATCAATAGACA
GCATTCAGAAGGACCCCAGGGAGTTTGCCTGGCGTGACCCCTGAGCTGCCAGAAGTCATTCACATGCTGCA
GCACCAGTTCCCATCGGTCCAGGCAAAATGCCGCAGCCTACCTGCAGCATCTGTGCTTTGGTGACAACAAA
GTGAAGATGGAGGTGTACAGGCTAGGGGAATCAAGCATCTGGTCGACCTGTTGGACCACAGGGTGTGG
AAGTTCAGAAGAATGCTTGTGGCGCCCTCGAAACCTTGTGTTGGCAAGTCAACAGACGAAAAATAAAT
AGCAATGAAGAACGTTGGTGAATCCCTGCCTTGTCTGCGACTGTTAAGAAAAATCCATTGATGCAGAAGTA
AGGGAGCTTGTACAGGGTTCCTTGGAACTATCTTCGTGTGATGCTGTAAGATGACAATCATTCCGAG
ACGCGCTCTCAACCTTAACCAACTGTGATAGTTCACATTCTGGTTGGAATAACTCTTCCTTTGATGA
TGATCATAAAAATTAATTTAGACCTCACTGGTCTTCGGAACACAACAGGTTGCCTGAGGAACCTCAGC
TCTGCCGGGAGGAAGCACGAAAACAAATGCGCTCCTGCGAGGGGCTGGTGGACTCGCTGTTGTATGTGA
TCCACACGTGTGTGAACACTTCTGACTACGACAGCAAGACAGTGGAGAAGTGTGTGTGTACCCTGAGGAA
CCTGTCTACACGGCTGGAGCTGGAAGTCCCTCAGGCCCGCTGCTCGACTGAACGAGCTAGATGACTTA
CTAGGAAAAGAGTCTCCAGCAAAGACTCGGAACCAAGCTGCTGGGAAAGAAGAAGAAAAAGAAAAAGA
GAACGCCACAAGAGGACCAATGGGATGGAGTCGGGCTATCCCTGGACTGTCCAAGTCCCCAAGGGAGT
CGAGATGCTGTGGCATCCATCAGTGGTAAAGCCGTACCTGACTCTGTTAGCAGAAAAGTTCCAACCCTGCC
ACCTTGAAGGCTCTGCCGGATCCCTGCAGAACCTCTCTGCTGGCAACTGGAAGTTTGCAGCATACATCC
GGGAGCTGTCCGGAAGGAAAAAGGGCTTCTATCCTTGTGCGAGCTTCTAAGGATGGATAATGACAGAGT
TGTCTCTTCTGTGGCCACTGCCTTGAGGAACATGGCGCTGGACGTTTCGCAACAAGGAGCTCATAGGTAAA
TACGCCATGCGAGACCTGGTGAACAGGCTTCCAGGTGGCAACGGCCCCAGCATCCTGTCCGATGAAACCG
TGGCAGCCATCTGCTGTGCTCTGCACGAGGTACCAGCAAAAACATGGAGAATGCCAAAGCTCTGGCCGA
CTCGGGAGGTATAGAGAAGCTGGTGAACATAACCAAAGGCAGAGGAGACAGATCCTCTCTGAAAGTGGT
AAGGCGGCAGCCAGGCTTGAATACATTATGGCAGTACCGGGACCTCCGGAGCATTACAAAAAGGATG
GGTGGAAATCAGAACCATTTTATTACACCTGTGTCCACGCTAGAGCGGAGACCGATTCAAATCACACCCTTC
TCTGTCCACCACCAACCAACAGATGTCCGCCATCATTTCAGTCAGGCTCCAGCAAACCTTCACCAATATAC
ATCAGTTCCTATTCCTCACCAGCAAGAGAACAAAATAGACGGCTACAGCATCAGCAGCTGTACTATCAAG
ATGACTCCACCAGGAAGACCTTGGATGCATACAGACTGTACCTGCAGTCTCCTCGAAGCTATGAAGACCC
TTATTGTGATGACCGAGTTCACTTCCCAGCTTCTACTGATTACTCAACGCAGTACGGACTGAAATCAACC
ACGAATTATGTAGACTTTTATTCCACTAAACGACCTTCTATAGAGCCGAACAGTACCCTGGTCCCCGG
ACTCCTGGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211706 representing BC082578
 Red=Cloning site Green=Tags(s)

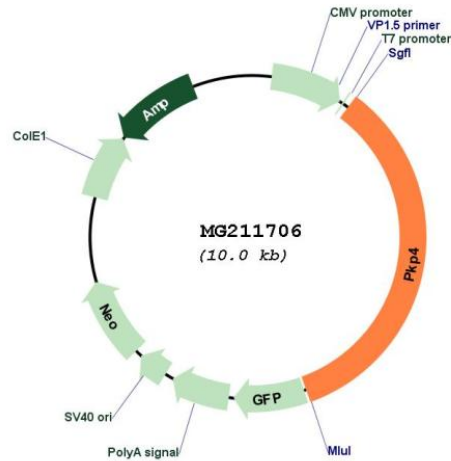
MPAPEQGSLVEEGQPQTHQEAVSTGPGMEPETTATTILASVKEQELQFQRLTRELEVERQIVASQLERCR
 LGAESPSIASTSSTEKSFWRSTDVNPNGVSKPRVSDTIHPNNYLIRTEPEQGLYSPEQTSLHESEGSL
 GNSRSSTQMNSYSDSGYQEAGSFHNSQTVNKADSRQHPFTGTSNHVVRTSRAEQTLVQPSVANRAMRR
 VSSVPSRAQSPSYVTSTGVSPSRGSLRTSLGSGFGSPSVTDSRPLNPSAYSSSTLPAQRAASPYQRPAS
 PTAVRRVGSVTSRQTSNPNGVPVQYQTTTRVGSPLTLTDAQTRVASPSQGQVGSSSPKRSGMTAVPQHLG
 PSLQRTVHDMQDFGQQQYDIYERMVPPRPDSLTLGRSSYASQHSQLGQELRSVAVSPDLHITPIYEGRTYY
 SPVYRSPNHGTVELQGSQTALYRTGSGVIGNLQRTSSQRSTLTYQRNNYALNTAATYAEPYRPVQYRVQE
 CSYNRLQHTGPADDGATRSPSIDSIQKDPREFAWRDPELPEVIHMLQHQPFSVQANAAAYLQHLFCGDNK
 VKMEVYRLGGIKHLVDLLDHRVLEVQKNACGALRNLVFGKSTDENKIAMKNVGGIPALLRLLRKSIDA
 EVRELVTGLWNLSSCAVAKMTIIRDALSTLTNTVI VPHSGWNNSSFDDHKIKFQTSVLVLRNTTGCLRNL
 SAGEEARKQMRCEGLVDSLLYVIHTCVNTSDYDSKTVENCVCTLRNLSYRLELEVPQARLLGLNELDDL
 LGKESPKDSEPCWGGKKKKKRRTPQEDQWDGVPGLSKSPKGVEMLWHPVVKPYLTLLAESNPAT
 TLEGSAGSLQNL SAGNWKFAAYIRAAVRKEKGLPILVELLRMDNDRVSSVATALRNMALDVRNKELIGK
 YAMRDLVNLPGNGPSILSDETVAAICCALHEVTSKNMENAKALADSGGIEKLVNITKGRGDRSSLKVV
 KAAAQVNLTLWQYRDLRSIYKKGWNQNHFITPVSTLERDRFKSHPSLSTTNQMSPIIQSGSSKPSPIY
 ISSYSSPAREQNRRLQHQLYYQDDSTRKTLDAYRLYLQSPRSYEDPYCDDRVHFFPASTDYSTQYGLKST
 TNYVDFYSTKRPSYRAEQYPGSPDSWV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI
Cloning Scheme:



Plasmid Map:



ACCN: BC082578

ORF Size: 3443 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.

RefSeq: [BC082578](#), [AAH82578](#)

RefSeq Size: 4331 bp

RefSeq ORF: 3443 bp

Locus ID: 227937

Cytogenetics: 2 C1.1

Gene Summary:

Plays a role as a regulator of Rho activity during cytokinesis. May play a role in junctional plaques (By similarity).[UniProtKB/Swiss-Prot Function]