

Product datasheet for **MG214531**

Cpz (NM_153107) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Cpz
Synonyms:	AV136066
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >MG214531 representing NM_153107
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCGACAATGCCGCTGCTGTGGCCGCGCTGGCTGCGCTGGCCGTGCTGGCCCTTGCCGCGGCCCA
 GCCCAGCTGCTCGCCTGGACCCGACCCCTCCGGTAAATGTGAGAGGCTGGTCTACACACACAGTGCCAC
 CTGTGTGGACCTGCATCTCAGGACCTGTGCGGATGCCGCTATAACCATAACATCGTTCCCCACACCGCTG
 GAGCACCGTCTGTGGGAGGAGTGGAGTCTAGCCCTGAGTACATGCTGTTGGGTGTGATACACTTCTCC
 TGGAGGTCAGTGAACCCCTGACCTGCGGCTGCTAGGGTCTCTGTGTTGGCCCCCGATGTGAGGGAGG
 CCACACACAAGGCCCTGCCGCATGTCTGTGAGGGCCTTCGGGAGGCCCTGCCAGCCGCCCTTTGACGCC
 ATCGACATGGCCTGCCCTACTTCTTGATTGTGCCCAATACTTCGCACCAGAGGAGGAAGGCTGCTATG
 ACCCTCTGGAAGAGCTCCGTGGAGAGCTGGATGTTGAGGAGGCCCTGCCCTCTGGCCTGCCACCTACCT
 CATTGCTTCGCCACCACTCCTATGCTCAGATGGTCCGAGTGTGAAGAGGACAGCGGCCCGCTGTTC
 CAGGTGCCAAGACCTACAGCATTGGCGCAGCTTTGAAGGCAAGGACCTGGTGGTATCGAGTTCTCGA
 GCCGCCCAGGCCAGCATGAACTGATGGAGCCTGAGGTGAAGCTCATTGGAACATTCATGGCAATGAGGT
 GGCCGGACGGGAAGTGTCTACTACCTGGCCAGTACCTGTCTCGGAGTACCTGTGGCAACCCCTCGC
 ATCCAGCGCTGCTGAACACCCCGCATCCACCTGCTGCCATCCATGAACCTGATGGTACGAAGTGG
 CAGCTGCAGAGGGTGTGGATACAATGGCTGGACCAGTGAAGGCAGAATGCACAGAACCTGGATCTGAA
 CCGCAACTTCCCTGACCTCACGTGACTACTACCGGCTGGCCTCGACTCGTGGTGTGCGCAGACCAT
 ATCCCCATCTCACAGTACTACTGGTGGGTAAAGTGGCCCCGAGACCAAGCCATCATGAAGTGGATAC
 AGACCATCCCTTCTGCTCTCAGCCAGCCTGCATGGCGCGACCTGGTGGTATCCTACCCCTTCGACTT
 CTCAAAGAACCCCATGAGAAAAAGATGTTTTCTCCACACAGATGAGAAGATGTTCAAGCTTCTGGCC
 AGAGCCTATGCTGATGTCCACCCATGATGATGGACAGGTCGGAGAACAGGTGTGGGGCAACTTCTGA
 AGCGGGGGAGCATCATCAACGGGGCGGACTGGTACAGCTTCACTGGAGGTATGTCTGACTTCAACTACT
 ACATACTCACTGCTTGTGAGTCACTGTGGAAGTGGCTGTGTGAAGTCCCCCAGAGGAGCGCGTGTAT
 GGCTGTGGCAACAGAACAAGGAGCCCTACTCAACTTCTGGAGATGGTACACCGAGGCATCAAGGGTA
 TGGTGACAGATAAATACGAAAAGCCAGTCAAGAACGCACGGATTCTGGTGAAGGCATCCGCCACGATGT
 CACCACAGCCCTGATGGTACTACTGGAGACTTCTTCCCCGGGTTCCCATATCGTCATTGCTCAGGCC
 CCTGGCTATCCAAGGTGATGAAGAGTACCATTCCCTTCCGCATGAAGAAGCCGGCCGTGTGGACT
 TCATCTCCATCTCTGGCGACAGGCCAAGAATTCTTCTGGACCTTCGAGAGCTTTACCTCGGTT
 CCAGGATCCTCAGAGAGAGCCACACAGATGGATTTTGGACCCCGAGGCTCGTAGGCAGCCAGCTAGT
 GGGAGCAAGCCATGGTGGTGGCTTACTTCACATCACTGAGCCGTACAAGCCACGCTGGCTGCTCAAGT
 AC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG214531 representing NM_153107
 Red=Cloning site Green=Tags(s)

MPTMPLLLAALAVLALAARPSPCSPGPDPSGKCQRLVYTHSATCVDLHLRRCADAAYNHTSFPTPL
 EHRWEAVESSPEYMLLGVIFLLEQGCPDLRLGCSVLAPRCEGGHTQRPCRHVCEGLREACQPAFDA
 IDMAWPYFLDCAQYFAPEEEGCDPLEELRGELDVVEALPSGLPPTFIRFAHHSYAQMVRVLKRTAARCS
 QVAKTYSIGRSFEGKDLVVEIEFSSRPGQHELMEPEVKLIGNIHGNEVAGREVL IYLAQYLCSEYLLGNPR
 IQRLNLTTRIHLPSMNPDPGYEVAAAEGAGYNGWTSGRQNAQNLDLNRNFPDLTSEYYRLASTRGVRTDH
 IPISQYWWWGKVAPETKAIMKWIQTIPFVLSASLHGGDLVVSYPDFSKNPHEKMFSPPTDEKMFKLLA
 RAYADVHPMMDRSENRCGNFLKRGSIINGADWYSFTGGMSDFNYLHTNCFEITVELGCVKFPPEEALY
 GLWQNKPELLNFLEMVHRGKGMVTDKYGKPVKNARILVKGIRHDVTTAPDGDYWRLLPPGSHIVIAQA
 PGYSKVMKRVTIPLRMKKAGRVDLILHPLATGPKNFLPGPSRALPRFQDPQREPTQMDFEPPRRARRQPAS
 GSKPWWWAYFTSLSPYKPRWLLKY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_153107

ORF Size: 1962 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).

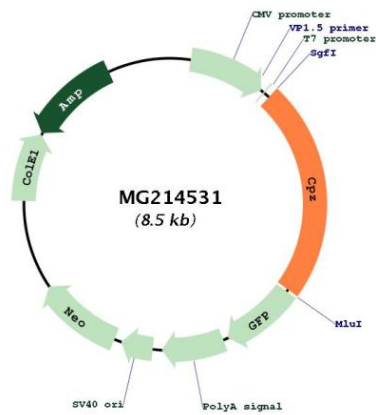
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_153107.2](#), [NP_694747.2](#)

RefSeq Size: 2189 bp

RefSeq ORF:	1965 bp
Locus ID:	242939
UniProt ID:	Q8R4V4
Cytogenetics:	5 B2
Gene Summary:	Cleaves substrates with C-terminal arginine residues. Probably modulates the Wnt signaling pathway, by cleaving some undefined protein. May play a role in cleavage during prohormone processing (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MG214531