

Product datasheet for **MR213352**

Cpa5 (NM_144537) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cpa5 (NM_144537) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cpa5
Synonyms:	4930430M09Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR213352 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGGGCACCCAAAGAGGAGGACTAGTCCCTGGGCTGTCCCCTCTGGACAGACGGACACTTCTGTTCT
 GCAACTTTATCTTGGCTGTAGCTTGGGGCCAAGTGAATTTACAGAGAGACCAGGTTCTTCGAGTCCCTGGC
 CAAAAATGAGAAGCAGCTGTCACTTCTCAGGGATCTGGAGACCCAGAAGCCCCAGAAGGTGGACTTCTGG
 CGTGGCCAGCCAGACCTAGCCTCCCTGTGGACATGAGAGTTCCTTCTCTGAAGTCCCCAGTGTAAAG
 CTTATTTGAAGTCTCATGGCCTTGCTACAGCATCATGATAAAGGACATCCAGGTGCTACTGGATGAAGA
 GAGAGACGCCATGGCAAAGTCTCGCAGGCTGGAACGCAGTACCAACAGCTTCAGCTATTCCTCTTATCAC
 ACCCTGGACGAGATATAGTTGGATCGACAACTTGTAGCTGAACATTCTAATCTTGTCTCCAAAATTC
 ACATTGGCAAGAGCTTTGAAAACCGGTCCATTCTTGTCTGAAGTTCAGCACTGGAGTCCAAAATCGCCC
 GGCTATCTGGATTGACTGGGATTCATCCAGAGAGTGGATCACCCATGCCACCGGCATCTGGATCTCG
 CAGAAGATTGTCAATGCATACGGCAAAGACCATGTCTTGAAGAGGATATTGAACACTATGGACATTTTCA
 TAGAGATTGTCACTAACCCCGATGGCTTTGCTTTTACTCATAGCATGAACCGCTTATGGCGAAAAACAA
 GTCAAGTCAACCCGGCATCTTCTGCATTGGCGTGGACCTCAACAGGAACTGGAAGGCAGGCTTCGGAGGA
 AATGGTTCTAACAAAAACCCCTGCTCAGAGACTTACCGAGGGCTGCACCTGAGTCAAGAGCCAGAGGTAG
 CTGCAATTGTGGACTTCATCACTGGCCATGGGAACTTCAAAGCTATGATCTCCATCCACAGCTACTCTCA
 GATGGTCATGTATCCTTATGGCCATTCTCTGGAGCCTGTACCTAACACGAAGAGCTGTTCAATCTTGCC
 AAGGATGCAGTAAAGCTCTCAACAAGTTCACGGGATCCAGTACATTTTTGGCAGCATCAGCACCCACC
 TCTATTACGCCAGTGGGATCTCGGTGGACTGGCTTATGACAGCGGCATCAAGTATGCCTTCAGCTTCGA
 GCTCCGGGACACTGGACAATATGGCTTCTGCTGCCAGCCTCACAGATTGTCCCCACAGCCGAGGAGACA
 TGGATGGCATTACAGACCATCATGAAACACACCCTGAATCACCCCTAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR213352 protein sequence
 Red=Cloning site Green=Tags(s)

MQGTQRGGLVPLSPLDRRTLLFCNFILAVAWGQVNFITGDQVLRVLAKNEKQLSLLRDLETQKPQKVDFW
 RGPAPRSLPVDMPVFPSELPSVKAYLKSHGLAYSIMIKDIQVLLDEERDAMAKSRRLERSTNSFSYSSYH
 TLDEIYSWIDNFVAEHSNLVSKIHIKGSFENRSILVLKFTSTGGPNRPAIWIDTGIHSREWITHTATGIWIS
 QKIVNAYGKDHVLRILNTMDIFIEIVTNPDGFAFTHSMNRLWRKNKSSQPGIFCIGVDLNRNWKAGFGG
 NGSNKNPCSETYRGPAPSEPEVAIVDFITGHGNFKAMISIHYSYQVMVYPYGHSLPEVNPHEELFNLA
 KDAVKALNKVHGIQYIFGSIITTLYSASGISVDWAYDSGIKYAFSEFLRDTGQYGFLLPASQIVPTAEET
 WMALQTIMKHTLNHPY

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_144537

ORF Size: 1311 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: [NM_144537.4](#), [NP_653120.1](#)

RefSeq Size: 1963 bp

RefSeq ORF: 1311 bp

Locus ID: 74649

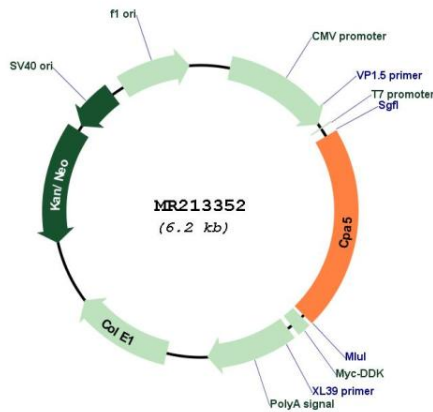
UniProt ID: [Q8R4H4](#)

Cytogenetics: 6 A3.3

MW: 49.2 kDa

Gene Summary: This gene encodes a member of the carboxypeptidase A family of zinc metalloproteases. The encoded preproprotein undergoes proteolytic processing that removes the N-terminal activation peptide to generate a functional enzyme. This gene is expressed in mouse testes where the encoded protein is localized to the germ cells. This gene is located in a cluster of carboxypeptidase genes on chromosome 6. [provided by RefSeq, Jul 2016]

Product images:



Circular map for MR213352