

Product datasheet for **MR215354**

Cpa6 (NM_177834) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Cpa6 (NM_177834) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Cpa6 |
| Synonyms: | 9030616D13Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MR215354 representing NM_177834
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAACTTCTCGGAATCCCAGGAGCCACACAGCAGCTTTTCTGCCGTTTGTGGCTCCTTTTGAATA
 TTCTGAAACCTGGGCACTGCCACTCTTACGACAACCGCTATGTTGGTGATAAAGTGATAAGACTCATCCC
 CAAATCCGAAGAGGAAGCACTTGCACCTAAGAACATATACCACCAACTTAAGGTGGACCTGTGGCAGCCC
 AGCAGTATCTCTATGTGTGAGAGGGGACAATTACTGATGTCCATATTTCCCAAATGCTTCCAGAACC
 TGTTAGCGTTCTTACAGGAAACCCACATCTACTACAAGTCTCATAGAAGATCTTCAGAAAGCTGTGGA
 AAATGAAAACAGCTTCAAACCCAGAGAAACAGAAAGATCCCTGTCTGAATACAACACGAGGTGTATCAC
 TCCTTAGAAGATATTCAGAGTTGGTGCACCATCTGAACCAACTCAGCCAGGCCTCGTTCGAGTGTCT
 CTATTGGAAGATCATACGAAGGAAGACCTCTTTATTATGCAGTGGGCAGAAAATCACGAGCCTACAA
 AAGAGCTGTCTGGATAGACTGCGCATTACGCAAGAGAATGGATCGGTCTGCCTTTTGTGAGTGGTTT
 GTAAGAGAAGCCATTCTGACCTACAAGACTGACCCAGCCATGAAAAAATGTTGAATCATCTGTATTCT
 ATATCATGCCTGTATTCAATGTCGATGGATACCATTTAGCTGGACACATGATAGATTCTGGAGAAAGAC
 CCGGTCAAGAGACTCTAAGTTTCGCTGTGCGTGGAGTTGATGCCAATCGCAACTGGAAAGTAAATGGTGC
 GATGAAGGAGCCTCCGCACACCTTGTGATGATACACTGTGGTCTTTCCAGAATCTGAACCAGAAG
 TGAAGGCTGTAGCTAACTTCTTCGAAAACACAGAAAGCGCATCAGGGCGTACCTGTCTTTTCATGCCTA
 TGCTCAGATGTTGCTATATCCTTATTCTTACAAATATGCAACAATCCCAATTTTAGCTGTGTGGAATTT
 GCAGCTCAAAAGCTGTGAAGGCACTTCGGTACATGGGATCCGATACAGACATGCCCCCGCCTCCC
 AAACACTGTATGTAAGCTCTGGTAACTCAATGGATTGGGCTTATAAAAATGGAATACCCTATGCATTGCT
 TTTTGAAGTGGCAGACTGCGCATTTTGGATTTCTACTGCCAGAGATGCTCATTAAACCCACCTGCACA
 GAGACCATGCTGGCTGTGAAGAATATCAATGCACCTGCTAAAGAAATGTCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR215354 representing NM_177834
 Red=Cloning site Green=Tags(s)

MNFLGNPRSHTAAFLPVCWLLLNLKPGHCHSYDNRYVGDVKVIRLIPKSEEEALALKNIYHQLKVDLWQP
 SSIYSVSEGTITDVHISQNASRTLLAFLQETHIYYKVLIEDLQKAVENENSLQTQRNRRSLSEYNYEVYH
 SLEDIQSWLHHLNQTQPLVRVFSIGRSYEGRPLFIMQLGRKSRAYKRAVWIDCGIHAREWIGPAFCQWF
 VREAILTYKTDPAAMKMLNHLFYIMPVFNVGYHFSWTHDRFRKTRSRDSKFRRCRGVDANRNWVKWC
 DEGASAHPCDDTYCGPFPESEPEVKAVANFLRKHKRIRAYLSFHAYAQMMLYPYSYKYATIPNFCVVEF
 AAHKAVKALRSVHGIRYRHGPASQTLVYSSGNSMDWAYKNGIPYAFAFELRDTGHFGFLLPEMLIKPTCT
 ETMLAVKNITMHLKKCP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9006_c08.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_177834

ORF Size: 1314 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_177834.3](#), [NM_177834.4](#), [NP_808502.2](#)

RefSeq Size: 1930 bp

RefSeq ORF: 1317 bp

Locus ID: 329093

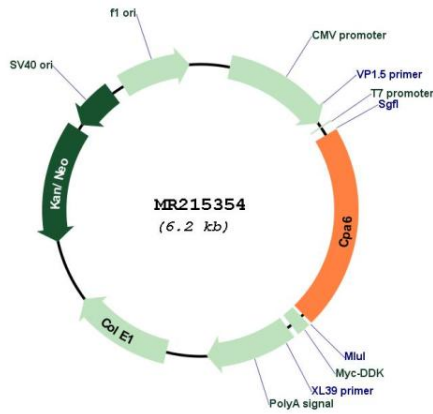
UniProt ID: [Q5U901](#)

Cytogenetics: 1 A2

MW: 51.6 kDa

Gene Summary: This gene encodes a protein that belongs to the metalloprotease family of proteins that catalyze the release of a C-terminal amino acid from the target protein. The encoded preproprotein undergoes proteolytic cleavage to yield the mature form which is thought to play a role in cell migration. In humans, this protein regulates neuropeptides in the brain and mutations in this gene are associated with a recessive familial form of febrile seizures and with temporal lobe epilepsy. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2014]

Product images:



Circular map for MR215354