

Product datasheet for **MG215354**

Cpa6 (NM_177834) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Cpa6
Synonyms:	9030616D13Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG215354 representing NM_177834
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACTTCCTCGGGAATCCCAGGAGCCACACAGCAGCTTTCTGCCGGTTTGCTGGCTCCTTTGAATA
TTCTGAAACCTGGGCACTGCCACTTACGACAACCGCATGTTGGTGATAAAGTGATAAGACTCATCCC
CAAATCCGAAGAGGAAGCACTTGCCTCAAGAACATATACCACCAACTAAGGTGGACCTGTGGCAGCCC
AGCAGTATCTCCTATGTGTCAGAGGGGACAATTACTGATGCCATATTTCCAAAATGCTCCAGAACC
TGTTAGCGTTCTTACAGGAAACCCACATCTACTACAAGGTCCTCATAGAAGATCTTCAGAAAAGCTGGGA
AAATGAAAACAGCTTGCAAACCCAGAGAAACAGAAGATCCCTGTCTGAATACAACACTACGAGGTGTATCAC
TCCTTAGAAGATATTCAGAGTTGGTTGCACCATCTGAACCAAACTCAGCCAGGCCTCGTTCGAGTGTCT
CTATTGGAAGATCATACGAAGGAAGACCTCTTTTATATGCAGCTGGGCAGAAAATCAGAGCCTACAA
AAGAGCTGTCTGGATAGACTGCGGCATTACGCAAGAGAATGGATCGGTCTGCCTTTGTGAGTGGTTT
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CCGGTCAAGAGACTCTAAGTTTCGCTGTCGTGGAGTTGATGCCAATCGCAACTGAAAAGTGAATGGTGC
GATGAAAGGAGCCTCCGCACACCCCTTGATGATACATACTGTGGTCTTTCCCAAGAACTCGAACCCAGAAG
TGAAGGCTGTAGCTAACTTCTTCCGAAAACACAGAAAAGCGCATCAGGGCGTACCTGTCTTTTCATGCCTA
TGCTCAGATGTTGCTATATCCTTATTCTTACAAATATGCAACAATCCCAATTTTAGCTGTGTGGAATTT
GCAGCTCACAAGCTGTGAAGGCACCTCGGTGGTACATGGGATCCGATACAGACATGGCCCGCCTCCC
AAACACTGTATGTAAGCTCTGGTAACTCAATGGATTGGGCTTATAAAAAATGGAATACCTATGCATTGCT
TTTTGAACTGCGAGACTGGGCATTTTGGATTCTACTGCCAGAGATGCTCATTAAACCCACCTGCACA
GAGACCATGCTGGCTGTGAAGAATATCACAATGCACCTGCTAAAGAAATGTCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



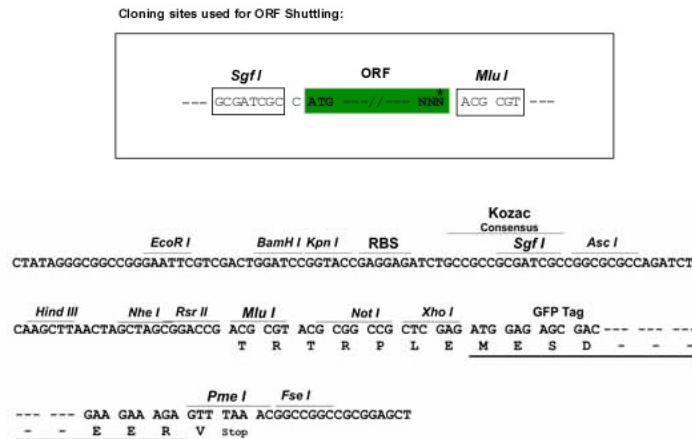
Protein Sequence: >MG215354 representing NM_177834
 Red=Cloning site Green=Tags(s)

MNFLGNPRSHATAAFLPVCWLLLNILKPGHCHSYDNRYVGDQVIRLIPKSEEEALALKNIYHQLKVDLWQP
 SSI SYVSEGITD V H I SQNASRTLLAFLQETHIYYKVLIEDLQKAVENENSLQTQRNRRSLSEYNYEVYH
 SLEDIQSWLHHLNQTQPLVRFVFSIGRSYEGRPLFIMQLGRKSRAVKRAVWIDCGIHAREWIGPAFCQWF
 VREAILTYKTD PAMKKMLNHL YFYIMPVFNVDGYHFSWTHDRFWRKTRSRDSKFRCRGVDANRNWVKVWC
 DEGASHPCCDDTYCGPFPESEPEVKAVANFLRKHRKIRAYLSFHAYAQMLLYPYSYKYATIPNFSCVEF
 AAHKAVKALRSVHGIRYRHPASQTLVYSSGNSMDWAYKNGIPYAFAFELRDTGHFGFLLPEMLIKPTCT
 ETMLAVKNITMHLKKCP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177834

ORF Size: 1314 bp

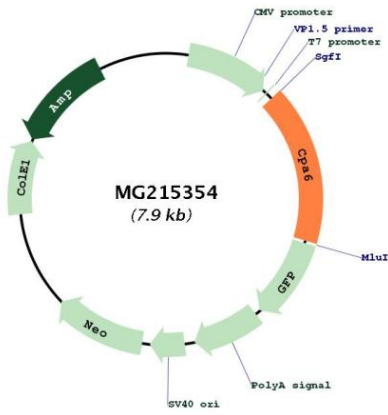
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_177834.3</u> , <u>NP_808502.2</u>
RefSeq Size:	1930 bp
RefSeq ORF:	1317 bp
Locus ID:	329093
UniProt ID:	<u>Q5U901</u>
Cytogenetics:	1 A2
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 MG215354