

Product datasheet for **RG207491**

CPA6 (NM_020361) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPA6 (NM_020361) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CPA6
Synonyms:	CPAH; ETL5; FEB11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207491 representing NM_020361 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTGTCTCGGAAGCGCAGGGGCCAGGCAGCTGCTTTCCTGCCTCTTTGCTGGCTCTTTTTGAAGA
TTCTGCAACCGGGGCACAGCCACCTTTATAACAACCGCTATGCTGGTGATAAAGTGATAAGATTTATTCC
CAAAACAGAAGAGGAAGCATATGCACTGAAGAAAATATCCTATCAACTTAAGGTGGACCTGTGGCAGCCC
AGCAGTATCTCCTATGTATCAGAGGGAACAGTTACTGATGTCCATATCCCCAAAATGGTCCCGAGCCC
TGTTAGCCTTCTTACAGGAAGCCAACATCCAGTACAAGTCCTCATAGAAGATCTTCAGAAAACACTGGA
GAAGGGAAGCAGCTTGCACACCCAGAGAAACCGAAGATCCCTCTCTGGATATAATTATGAAGTTTATCAC
TCCTTAGAAGAAATTCAAAATTGGATGCATCATCTGAATAAACTCACTCAGGCCTCATTACATGTTCT
CTATTGGAAGATCATATGAGGGAAGATGTCTTTTTATTTAAAGCTGGGCAGACGATCACGACTCAAAG
AGCTGTTTGGATAGACTGTGGTATTCAATGCAAGAGAATGGATTGGTCTGCCTTTTGTGAGTGGTTTGT
AAAGAAGCTCTTCTAACATATAAGAGTGACCCAGCCATGAGAAAAATGTTGAATCATCTATTTCTATA
TCATGCCTGTGTTAACGTGCGATGGATACCATTTAGTTGGACCAATGATCGATTTTGGAGAAAAACAAG
GTCAAGGAAGTCAAGTTTCGCTGCCGTGGAGTGGATGCCAATAGAACTGGAAGTGAAGTGGTGTGAT
GAAGGAGCTTCTATGCACCTTGTGATGACACATACTGTGGCCCTTTCCAGAATCTGAGCCGGAAGTGA
AGGCTGTAGCTAACTTCCTTCGAAAACACAGAAAGCACATTAGGGCTTATCTCTCCTTTCATGCATATGC
TCAGATGTTACTGTATCCCTATTCTTACAAATATGCAACAATTCCTAATTTAGATGTGTGGAATCTGCA
GCTTATAAAGCTGTGAATGCACTTCAGTCAGTATACGGGTACGATACAGATATGGACCAGCCTCCACAA
CGTTGTATGTGAGCTCTGGTAGCTCAATGGATTGGGCCTACAAAATGGAATACCTTATGCATTTGCTTT
CGAACTACGTGACACTGGATATTTGGATTTTACTCCCAGAGATGCTCATCAAACCCACCTGTACAGAA
ACTATGCTGGCTGTGAAAAATATACAATGCACCTGCTAAAGAAATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207491 representing NM_020361
 Red=Cloning site Green=Tags(s)

MKCLGKRRGQAAFLPLCWLFLKILQPGHSHLYNNRYAGDKVIRFIPKTEEEAYALKKISYQLKVDLWQP
 SSI SYVSEGTVDVHIPQNGSRALLAFLQEANIQYKVLIEDLQKLEKGSLSHTQRNRRSLSGYNYEVYH
 SLEEIQNMWHHLNKTHTSGLIHMFSIGRSYEGRCLFILKLRSSRLKRAVWIDCGIHAREWIGPAFCQWFV
 KEALLTYKSDPAMRKMLNHL YFYIMPVFNVDGYHFSWTNDRFWRKTRSRNSRFRCRGVDANRNWKVKWCD
 EGASMHPCDDTYCGFPPESEPEVKAVANFLRKHRRKHIRAYLSFHAYAQMMLYPYSYKYATIPNFRVESA
 AYKAVNALQSVYGVRYRYPASTTLYVSSGSSMDWAYKNGIPYAFAFELRDTGYFGFLLPEMLIKPTCTE
 TMLAVKNITMHLKCCP

TRTRPLE - GFP Tag - V

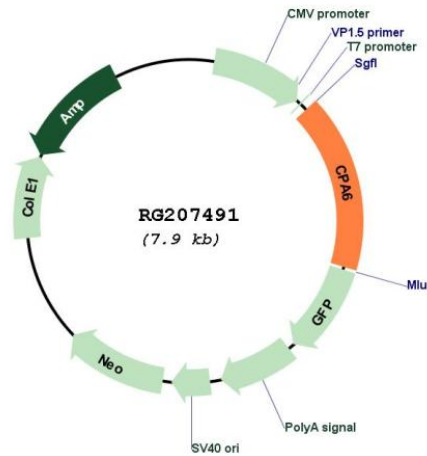
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_020361

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:	<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.
RefSeq:	NM_020361.3
RefSeq Size:	1907 bp
RefSeq ORF:	1314 bp
Locus ID:	57094
UniProt ID:	Q8N4T0
Cytogenetics:	8q13.2
Protein Families:	Protease, Secreted Protein
Gene Summary:	<p>The gene encodes a member of the peptidase M14 family of metalloproteases. The encoded preproprotein is proteolytically processed to generate the mature enzyme, which catalyzes the release of large hydrophobic C-terminal amino acids. This enzyme has functions ranging from digestion of food to selective biosynthesis of neuroendocrine peptides. Mutations in this gene may be linked to epilepsy and febrile seizures, and a translocation t(6;8)(q26;q13) involving this gene has been associated with Duane retraction syndrome. [provided by RefSeq, May 2016]</p>