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Product datasheet for RG202719

Carboxypeptidase A2 (CPA2) (NM_001869) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carboxypeptidase A2 (CPA2) (NM_001869) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Carboxypeptidase A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG202719 representing NM_001869
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGTTGATCCTGTTTTTTGGTGCCCTTTTTGGGCATATCTACTGTCTAGAAACATTTGTGGGAGACC
AAGTTCTTGAGATTGTACCAAGCAATGAAGAACAAATTAAAAATCTGCTACAATTGGAGGCTCAAGAACA
TCTCCAGCTTGATTTTTGGAAATCACCCACCACCCCAGGGGAGACAGCCCACGTCCGAGTTCCCTTCGTC
AACGTCCAGGCAGTCAAAGTGTTCTTGGGGTCCCAGGGAATTGCCTATTCCATCATGATTGAAGACGTGC
AGGTCCTGTTGGACAAAGAGAATGAAGAAATGCTTTTTAATAGGAGAAGAGAACGGAGTGGTAACTTCAA
TTTTGGGGCCTACCATACCCTGGAAGAGATTTCCCAAGAAATGGATAACCTCGTGGCTGAGCACCCTGGT
CTAGTGAGCAAAGTGAATATTGGCTCTTCTTTTGAGAACCGGCCTATGAACGTGCTCAAGTTCAGCACCG
GAGGAGACAAGCCAGCTATCTGGCTGGATGCTGGGATCCATGCTCGAGAGTGGGTTACACAAGCTACGGC
ACTTTGGACAGCAAATAAGATTGTTTCTGATTATGGAAAGGACCCATCCATCACTTCCATTCTGGACGCC
CTGGATATCTTCCTCCTGCCAGTCACAAACCCTGATGGATACGTGTTCTCTCAAACCAAAAATCGTATGT
GGCGGAAGACCCGGTCCAAGGTATCTGGAAGCCTCTGTGTTGGTGTGGATCCTAACCGGAACTGGGATGC
AGGTTTTGGAGGACCTGGAGCCAGCAGCAACCCTTGCTCTGATTCATACCACGGACCCAGTGCCAACTCT
GAAGTTGAAGTGAAATCCATAGTGGACTTCATCAAGAGTCATGGAAAAGTCAAGGCCTTCATTACCCTCC
ACAGCTATTCCCAGCTGCTGATGTTCCCCTATGGGTACAAATGTACCAAGTTAGATGACTTTGATGAGCT
GAGTGAAGTGGCCCAAAAGGCTGCCCAATCTCTGAGAAGCCTGCATGGCACCAAGTACAAAGTGGGACCA
ATCTGCTCTGTCATCTACCAAGCCAGTGGAGGAAGCATTGACTGGTCCTATGATTATGGCATCAAGTACT
CATTTGCCTTTGAACTGAGAGACACAGGGCGCTACGGCTTCCTCTTGCCAGCCCGTCAGATCCTGCCCAC
AGCCGAGGAGACCTGGCTTGGCTTGAAGGCAATCATGGAGCATGTGCGAGACCACCCCTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

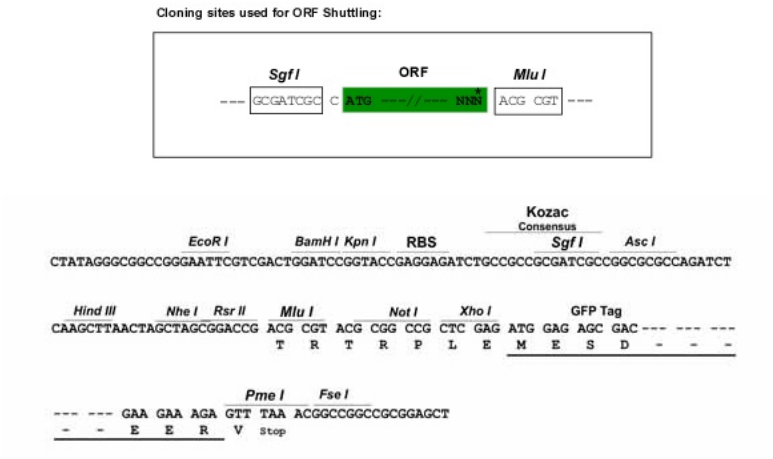
>RG202719 representing NM_001869
Red=Cloning site Green=Tags(s)

MRLILFFGALFGHIYCLETFVGDQVLEIVPSNEEQIKNLLQLEAQEHLQLDFWKSPTTPGETAHVRVPFV
NVQAVKVFLGSQGIAYSIMIEDVQVLLDKENEEMLFNRRRERSGNFNFGAYHTLEEISQEMDNLVAEHPG
LVSKVNIGSSFENRPMNVLKFSTGGDKPAIWLDAGIHAREWVTQATALWTANKIVSDYGKDPSITSILDA
LDIFLLPVTNPDGYVFSQTKNRMWRKTRSKVSGSLCVGVDPNRNWDAGFGGPGASSNPCSDSYHGPSANS
EVEVKSIVDFIKSHGKVKAFITLHSYSQLLMFPYGYKCTKLDDFDELSEVAQKAAQSLRSLHGTKYKVGP
ICSVIYQASGGSIDWSYDYGIKYSFAFELRDTGRYGFLLPARQILPTAEETWLGLKAIMEHVRDHPY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001869

ORF Size: 1251 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_001869.1, NP_001860.1

RefSeq Size: 1306 bp

RefSeq ORF: 1260 bp

Locus ID: 1358

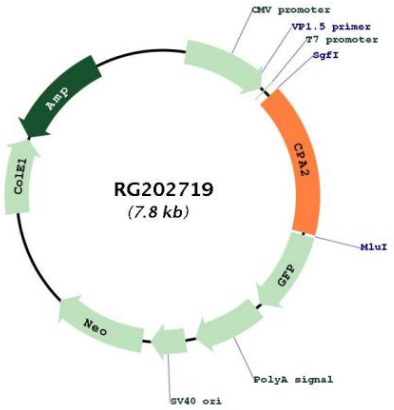
UniProt ID: P48052

Cytogenetics: 7q32.2

Protein Families: Druggable Genome, Protease, Secreted Protein

Gene Summary: Three different forms of human pancreatic procarboxypeptidase A have been isolated. The encoded protein represents the A2 form, which is a monomeric protein with different biochemical properties from the A1 and A3 forms. The A2 form of pancreatic procarboxypeptidase acts on aromatic C-terminal residues and is a secreted protein. [provided by RefSeq, Dec 2008]

Product images:



Circular map for RG202719