

Product datasheet for **RG219637**

CPNE8 (NM_153634) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPNE8 (NM_153634) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CPNE8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219637 representing NM_153634
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGACAGCCGCTACAACAGCACTGCGGGCATCGGGGACTTGAACCAGCTGAGCGCTGCCATCCCGGCCA
 CGCGGGTGGAGGTGTCCGTGTCCTGCAGAAATCTTCTTGACAGAGACACATTTTCTAAATCTGATCCAAT
 TTGTGTCTTATATGTACAAGGAGTTGGAATAAAGAATGGAGAGAGTTTGAAGAAGTGAAGTAATTGAT
 AATACTTTAAATCCTGATTTTGAAGAAAGTTTATTCTGGACTACTTTTTGAAGAAAGAGAGAATCTTC
 GTTTTGACTTGTATGATGTTGATTCAAAGAGCCCCAACTTATCCAACATGACTTCTGGGACAAGTGTT
 TTGTACATTGGGAGAGATCGTTGGTTCACAGGGAAGTCGCTGAAAAACCAATAGTAGGAATCCAGGG
 AAGAAATGTGGTACAATCATACTTACAGCAGAGGAATTAAGTGTGCAGGGATGCCGTTTTGATGCAAT
 TTTGTGCGAACAATTGGACAAGAAGGACTTCTTTGAAAAATCAGATCCTTCTTGATTTTATCGAAG
 TAATGAAGATGGCAGTTTACAATTTGTACAAGACAGAAGTTGTCAAAAACACTCTAAATCCAGTATGG
 CAAGCATTCAAGATCTCAGTCAGAGCATTATGTAATGGAGACTATGACAGAAACAATCAAAGTAGAGGTGT
 ATGACTGGGACCGAGATGGAAGTCATGATTTTCATTGGAGAATTTACAACAAGCTATAGGGAACCTTCTAG
 AGGGCAGTCACAATTCACGTATATGAGGTGGTGAATCCAAAAAGAAAGGAAAAAGAAAAATATACT
 AATTCTGGAACAGTAACCTTACTCTCTTCTTGGTAGAAACAGAGTTTCATTCTTGACTACATTAAGG
 GAGGGACGCAATCAATTCACAGTGGCTATTGATTTTACAGCATCAAACGGCAACCTGCTCAGCCAC
 TTCCCTCCACTATATGAATCCTTACCACTGAATGCCTATGGTATGGCACTAAAAGCAGTGGGAGAAAT
 GTTCAAGATTATGACAGTGATAAAATGTTTCCAGCTCTAGGATTTGGTGCAAACTGCCTCCAGATGGAA
 GGATATCTCACGAATTTGCTTTGAATGGGAATCCTCAAAACCCCTACTGTGATGGCATTGAGGGGGTCAT
 GGAGGCTTATTACAGGAGTCTGAAATCTGTACAACATATAGGGCCCACTAATTTGCTCCTGTAATTAAT
 CATGTAGCAAGATATGCTTCTTCTGTAAAGGATGGCTCCAGTATTTTGTGCTTCTGATTGTTACAGATG
 GTGTTATCTCAGATATGGCCAGACTAAGGAGTCCATAGTTAATGCCTCAAACTTCCAATGTCAATAAT
 TATAGTAGGTGTTGGACCAGCAGAAATTTGATGCAATGGTCGAATTGGATGGAGATGATGAAGAGTCTCC
 TCTAGAGGAAAAATGCTGAAAGAGACATTGTGCAGTTTGTGCCATTGAGGGATTATATTGACAGAAGTG
 GAAACCACATACTGAGCATGGCTAGATTGGCTAAAGATGTCCTAGCTGAGATCCCTGAGCAGTTTCTCTC
 CTATATGAGAGCCCGAGGAATCAAGCCATCACCTGCGCCTCCCCATACACCCACCTACACATGTGTTA
 CAGACTCAAATA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG219637 representing NM_153634
 Red=Cloning site Green=Tags(s)

MDSRYNSTAGIGDLNQLSAAIPATRVEVSVSCRNLLDRDTFSKSDPICVLYVQGVGNKEWREFGRTEVID
 NTLNPDFVRKFILDYFFEERENLRFDLYDVDSKSPNLSKHDFLGQVFCTLGEIVGSQGSRLKPIVGIPG
 KKCGTIILTAELNCCRDAVLMQFCANKLDKKDFGKSDPFLVFYRSNEDGSFTICHKTEVVKNLNPVW
 QAFKISVRALCNGDYDRTIKVEVYDWD RDGSHDFIGFTTSYREL SRGQSQFNVEVVPNPKKGGKKKYT
 NSGTVTLLSFLVETEVSFLDYIKGGTQINFTVAIDFTASNGNPAQPTSLHYMNPYQLNAYGMALKAVGEI
 VQDYDSKMFALGFGAKLPPDGRISHEFALNGNPQNYPYCDGIEGVMEAYYRSLKSVQLYGPTNFAVIN
 HVARYASSVKDGSQYFVLLIVTDGVISDMAQTKEIVNASKLPMSIIIVGVGPAEFDAMVELDGGDDVRVS
 SRGKYAERDQVFPFRDYIDRSNGNHL SMARLAKDVLAEIPEQFLSYMRARGIKPSPAPPPTPPTHVL
 QTQI

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_153634

ORF Size: 1692 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_153634.2](#), [NP_705898.1](#)

RefSeq Size: 3476 bp

RefSeq ORF: 1695 bp

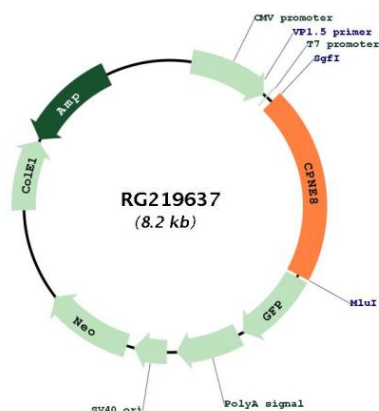
Locus ID: 144402

UniProt ID: Q86YQ8

Cytogenetics: 12q12

Gene Summary: Calcium-dependent membrane-binding proteins may regulate molecular events at the interface of the cell membrane and cytoplasm. This gene is one of several genes that encode a calcium-dependent protein containing two N-terminal type II C2 domains and an integrin A domain-like sequence in the C-terminus. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG219637