

Product datasheet for **RC238444**

CAPS2 (NM_001286547) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAPS2 (NM_001286547) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CAPS2
Synonyms:	UG0636c06
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC238444 representing NM_001286547
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGATAAACACAGGAACCAATGGATTTAGAGGTTAAAGGAGTTGCTGCCACTTCTAGGAGCCAAATTC
 AGCCATTCCTTTGGAAGAAAGAAGCCTCTACAACAAAGGTGGACTTCTGAGTCATGGACAAACCAGAATTC
 TTGCCACCAGTGGTCCACGACTTGATTTGGGAAGCCTTGTGACTCTGATGATGAGGATCAGAACATA
 ATACCTGAAAATTTGCCAGCACCAACAGACAAATGTAACATAAAATATCAGCAATGTAAACTGAAATTA
 AAGAGGGCTATAAGCAGTATAGTCAGAGAAATGCAGAAATACAAATCAATGTTACACATAAACAGTC
 TCCAAGAAACAAGATAGATGAAAAGTGTGTCAAGATGAAGAAGCCAACACAGATGACCTTACGACTCTG
 GATAGGAAAGCCATCTTACAGCAAGGTTATGCAGACAACCTTTCGATAAACAACAGAGGGCAAGAAAAT
 TGGATGCAGAAATGTGGCTGCAGAGAAGAAGAAACAGATTGTTGCAGAGCAAGTGATGATAGACCACTT
 ATCTAGGGCTGTATCAGTGATCCAGAGCAAAATTTAGCCATTGAGCAAAAAGAAAGTGATCATATCCTT
 CCAGATTCAAAGATGACACCTCTTCGATTAGAAAAAGAACACTACATGAAACAAAGATAAGAACTCATT
 CTACATTAACGAAAATGTGCTTTCTCATAAAATTACAGTTTGATGGTAGGATCGTATCACGAACAAATGT
 GCTTCCTTTTATCAAAAAAGCATTATAGTCATCAGTGTGGACGAAGAAAAGGAAAACAATACCGACTT
 GGTGATTTTTATGTTGGTGCAACCTTGACATTTTTGAGTTCTGATCATCTCAGCCTTCCAGAAAGCATCA
 AAGAAAACACATTACTTAACTCCGAATCACAAATATTGATCAAAATAGCTTTGGATTCTCTCAAACTGC
 TTCTATGGAACAGGAGGATGATAATCATTCAAGAAACCAATGATAGGCTGGTCTTCAAGCAATTCAA
 GATGTGCTAAAAGAAAACTACATAAAAGAGGTGTTCTGATTTTACTGGATTGGGAAAAATTTTCAAC
 AGTTGGACAAGGAAGGAAATGGACTTTTAGATAAGGCAGATTTTAAGCAAGCTCTAAAAGTGTTCCTT
 AGAAGTGTCTGAAAAGGATTTTGAAGTCTGCATGGCTAATTCTGAATGACAAATGGCAATGGCAAGGTTGAT
 TATGGAGAATTCAAACGTGGTATTATTGGTGAAATGAATGAATACAGGAAATCATATGTTGAAAGGCCT
 TTATGAACTGGATTCAACAAAGTGGCAGTGTGCCTATTATAAACATAAGAAAATGTTACTGTGCAAA
 GAAGCATTCTCAAGTAATTCAGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238444 representing NM_001286547
 Red=Cloning site Green=Tags(s)

MINTGTQMDLEVKGVAATSRSQIQPFGRKKPLQQRWTSWNTQNSCPPVVPRLDLGSLVDSDDDEDQNI
 IPENLPAPTDKCKLKYQCKTEIKEGYKQYSQRNAENTKSNVTHKQSPRNKIDEKCVQDEEANTDDLTTL
 DRKAILQQGYADNSCDKQQRARKLDAEIVAAEKKKQIVAEQVMIDHLGRAVISDPEQNLAIQKESDHIL
 PDSKMTPLRFRKRTLHETKIRTHSTLTENVLSHKLQFDGRIVSRNVLPIQKSIYSHQCGRRKQKQYRL
 GDFYVGATLTFLSSDHLSPESIKENTLLKLRLITNIDQIALDSLKTASMEQEDDIIQETNDRLVFKAIQ
 DVLKEKLHKRGVRILTGLKGYFQQLDKEGNLLDKADFKQALKVFHLEVSEKDFESAWLILNDNGNGKVD
 YGEFKRGIIGEMNEYRKSYYVRKAFMKLDFNKSQSVPIINIRKCYCAKKHSQVISG

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001286547

ORF Size: 1425 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_001286547.3](#)

RefSeq Size: 1910 bp

RefSeq ORF: 1428 bp

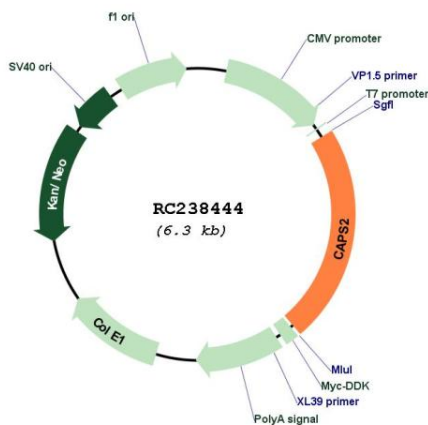
Locus ID: 84698

Cytogenetics: 12q21.1-q21.2

MW: 54.8 kDa

Gene Summary: Calcyphosine-2 is a calcium-binding protein with 2 EF-hand motifs (Wang et al., 2002 [PubMed 11846421]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC238444