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Product datasheet for RC205483

C10orf63 (ENKUR) (NM_145010) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C10orf63 (ENKUR) (NM_145010) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C10orf63
Synonyms:	C10orf63; CFAP106
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC205483 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCCAACGTGCTCTTCTGAGTGCATTTATAACCTCATACCCAGTGACTTGAAGGAGCCTCCCCAGC
CTCCTAGGTACATATCCATTTTTAAGGCAACTGTAAAAGATGACATGCAAAAAGCTAAAACTGCAATGAA
AACTATGGGACCAGCAAAAGTTGAAGTACCTTCTCCAAAGGATTTCCTAAAGAAACATTCAAAGGAAAAA
ACTCTACCACCCAAAAAAAACTTTGATCGGAACGTGCCCAAAAAGCCTGCTGTGCCATTGAAGACTGATC
ATCCTGTCATGGGAATACAGAGTGGAAAAAATTTTATAAATACAAATGCAGCTGATATCATCATGGGAGT
GGCTAAAAAGCCTAAACCAATTTATGTTGATAAAAGAACTGGAGACAAGCATGATCTTGAGCCTTCAGGA
CTAGTTCCAAAGTACATCAATAAAAAGGATTATGGTGTCACACCTGAATACATATGTAAGCGAAACGAGG
AAATAAAGAAAGCCCAAGAAGACTATGATCGTTATATCCAGGAAAACCTTAAGAAAGCAGCTATGAAAAG
GCTCTCCGATGAAGAAAGGGAGGCAGTTTTGCAGGGGCTGAAAAAGAACTGGGAAGAGGTGCATAAAGAA
TTCCAGTCCCTCTCGGTCTTTATAGATTCTATACCAAAGAAGATCCGCAAGCAGAGGCTGGAAGAAGAAA
TGAAACAACTAGAACACGACATTGGCATAATTGAAAAGCACAAGATTATTTATATTGCCAATAACGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC205483 protein sequence
Red=Cloning site Green=Tags(s)

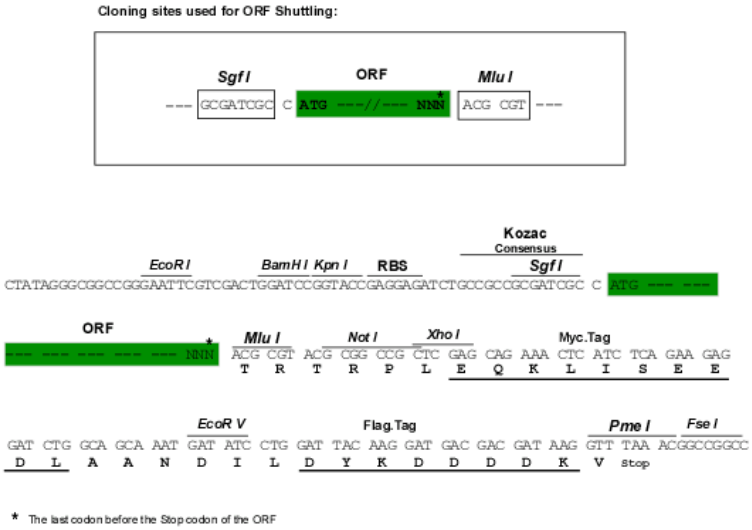
MDPTCSSECIYNLIPSDLKEPPQPPRYISIFKATVKDDMQKAKTAMKTMGPAKVEVPSPKDFLKKHSKEK
TLPPKKNFDRNVPKKPAVPLKTDHPVMGIQSGKNFINTNAADIIMGVAKKPKPIYVDKRTGDKHDLEPSG
LVPKYINKKDYGVTPEYICKRNEEIKKAQEDYDRYIQENLKKAAMKRLSDEEREAVLQGLKKNWEEVHKE
FQSLSVFIDSIPKKIRKQRLEEEMKQLEHDIGIIEKHKIIYIANNA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6316_a04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145010

ORF Size: 768 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_145010.4

RefSeq Size: 3399 bp

RefSeq ORF: 771 bp

Locus ID: 219670

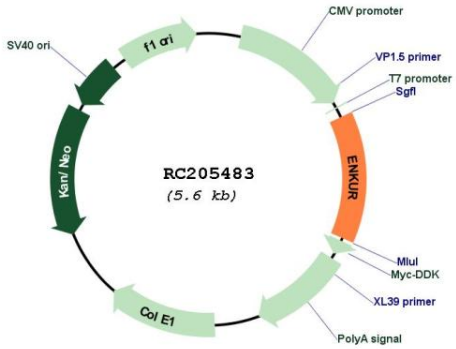
UniProt ID: Q8TC29

Cytogenetics: 10p12.1

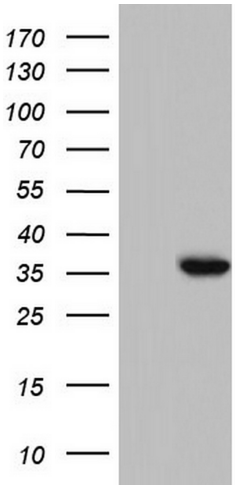
MW: 29.5 kDa

Gene Summary: This gene encodes a protein that interacts with calmodulin and several transient receptor potential canonical cation channel proteins. The encoded protein may function as an adaptor to localize signal transduction machinery to calcium channels. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2012]

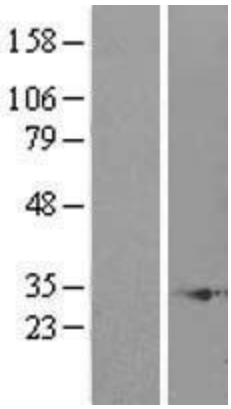
Product images:



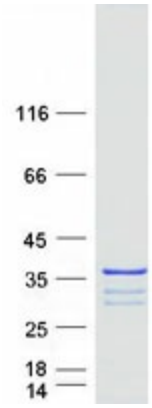
Circular map for RC205483



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ENKUR (Cat# RC205483, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ENKUR antibody (Cat# [TA804173]). Positive lysates [LY408146] (100ug) and [LC408146] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY408146]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205483 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ENKUR protein (Cat# [TP305483]). The protein was produced from HEK293T cells transfected with ENKUR cDNA clone (Cat# RC205483) using MegaTran 2.0 (Cat# [TT210002]).