

Product datasheet for **RC206388**

Enconsin (MAP7) (NM_003980) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Enconsin (MAP7) (NM_003980) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Enconsin
Synonyms:	E-MAP-115; EMAP115
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC206388 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGCTAGGAGCTGGCGGCGACGGCCACAGGGCGGCGACGGCGCAGTGCGAAGCGAAACAGCAC
 CCGACAGCTACAAAGTGC AAGATAAGAAAAATGCCTCCAGCCGCCCTGCCTCTGCAATTTAGGACAAAA
 TAACAACCACTCAGGAAATAAACAGACCTCCGCCTGTGTTACGTGTTGATGACCGGCAGCGGCTGGCC
 CGGGAGCGACGTGAGGAACGGGAGAAACAGCTAGCTGCAAGAGAAATAGTGTGGTTAGAAAGAGAAGAGC
 GAGCCAGGCGACTACGAGAAGCACCTGGAAGAGCGGAAGAAGAGGTTGGAGGAGCAGAGGCAGAAAGGA
 GGAGCGGAGGAGGCTGCTGTGGAGGAGAAGCGGAGGCAGAGACTTGAGGAGGACAAAGAAGCCACGAA
 GCTGTTGTACGGCGACAATGAAAGGAGCCAGAAGCCAAAACAGAAGCATAACCGTTGGTCGTGGGGAG
 GCTCTCCATGGGAGCCCTAGCATCCACAGTGCAGATCCAGACAGGCGGTGAGTTCCACCATGAATCT
 TTCGAAATATGTTGATCCCGTCATTAGCAAGCGGCTCTCTCTTCATCTGCAACTTTACTAAATTCTCCA
 GATAGAGCTCGCCGCCTGCAGCTCAGCCATGGGAGAGCAGCGTTGTTAACAGACTCCTGACGCCACAC
 ATTCGTTCTGGCCAGAAGTAAAAGCACAGCTGCCTTGTCTGGAGAAGCAGCATCTTGACGCCCATCAT
 CATGCCCTACAAAGCTGCACACTCTAGAAATTCGATGGATCGACCAAACTCTTTGTAACACCACCTGAG
 GGCTCTTCTCGCAGGAGGATCATTATGGCACAGCGAGCTATAAAAAAGAAAGAGAGAGAAAAATGTAC
 TCTTCTCACATCTGGCACCCGAAGGGCTGTATCTCCATCTAATCCCAAAGCAAGACAACCCAGCTCGCTC
 CCGACTTTGGCTCCGTC AAGTCTCTTCTCATTGCTGCGCACACCCAGACCGACATCCTCCTTGCCA
 CCCGGCTCAGTCAAAGCTGCTCCTGCTCAGGTCGGGCCCCATCCCCGGCAACATCCGCCCTGTCAAGA
 GGGAAGTCAAAGTGGAGCCTGAGAAGAAAGATCCTGAGAAGGAACCTCAGAAAGTTGCCAATGAGCCCTC
 ACTAAAGGGCAGAGCACCTTTAGTGAAGGTAGAAGAAGCCACAGTTGAAGAGCGGACACCTGCTGAACCA
 GAAGTTGGCCCTGCTGCTCCAGCCATGGCCCCAGCTCCAGCCTCGGCCCCAGCTCCAGCCTCGGCCCCAG
 CTCAGCCCGGTCCCCACCCAGCCATGGTCTCAGCCCGTCATCCACTGTGAATGCCAGTGCTTCTGT
 TAAGACTTCTGCAGGCACCAGCCAGCCAGAGGAGGCCACAAGGCTTCTAGCTGAGAAGAGGGCGCTGGCC
 CGAGAGCAGAGAGAAAAGGAAGAAAGGGAGAGGAGGGAGCAGGAAGAGCTTGAAAGACAAAAGAGAGAGG
 AATTGGCTCAACGTGTGGCTGAAGAGAGGACGACTCGCCGTGAGGAGGAGTGCAGCAGGCTGGAAGCCGA
 GCAGGCCCGGGAAGGAGGAGCAGCTGCAGCGCAGGCGGAGGAGCGGGCGCTGCGCGAGTGGGAGGAG
 GCAGAGCGCGCCAGAGGCAGAAAGAAGAAGACTCGCGTTCGTGAAGAAGCAGAGAGGGTCCGCGAGG
 AACGAGAGAAGCATTTCAGAGAGAAGCAAGAGCGCCTGGAGAGAAAGAAGCGACTTGAGGAGATTAT
 GAAAAGAACCAGGAGAACAGAAGCTACAGATAAGAAAACCAAGTATCAGAGAAACGGTGATATAGCCAAG
 GGAGCTCTCACTGGAGGAACAGAGGTGTCTGCACTTCCATGTACAACAAACGCTCCGGGAAATGGAAGC
 CAGTTGGTAGCCACATGTGGTTACCTCACACCACTCAAAGTGACAGTGGAGAGCACTCCCGATTGGAA
 AAAACAACCAATGAAAATGGTGTATCTGTTGAGAATGAAAATTTGAAGAAATTATAAATTACCCATT
 GGATCTAAACCATCCAGATTAGATGTCACCAACAGTGAGAGCCCAGAAATTCCTTTGAATCCAATTTGG
 CCTTTGATGAAGGGACACTTGGGCCCTGCCTCAGGTAGATGGTGTTCAGACACAGCAGACTGCAGAG
 AGTTATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206388 protein sequence
 Red=Cloning site Green=Tags(s)

MAELGAGDGHRRGGDGA VRSETAPDSYKVQDKKNASSRPASAI SGQNNNHSGNKPDP PPPVLRVDDRQRLA
 RERREEREKQLAAREIVWLEREERARQHYEKHLEERKKRLEEQRQKEERRRAAVEEKRRQRLEEDKERHE
 AVVRRTMERSQPKPKQKHNRWSWGGSLHGSPSIHSADPDRRSVSTMNLSKYVDPVISKRLSSSATLLNSP
 DRARRLQLSPWESSVVRLLTPTHSFLARSKSTAALSGEAASCSP IIMPYKAAHSRNSMDRPKLFVTPPE
 GSSRRRIIHGTASYKKERENVLFLTSGTRRAVSPSNPKARQPARSRLWLP SKSLPHLPGTPRPTSSLP
 PGSVKAAPAQVRPPSPGNIRPVKREVKVEPEKKDPEKEPQKVANEP SLKGRAPLVKVEEATVEERTPAEP
 EVGPAAPAMAPAPASAPAPASAPAPAPVPTPAMVSAPSSTVNASASYKTSAGTTDPEEATRL LAEKRRLA
 REQREKEERERREQEELERQKREELAQRVAEERTTRREEESRLEAEQAREKEEQ LQRQAEEERALREWEE
 AERAQRQKEEEARVREEAERVQREREKHFQREEQERLERKKRLEEIMKRTRRTEATDKKTS DQRNGDIAK
 GALTGGTEVSALPCTTNAPGNGKPVGSPHVVTS HQSKVTVESTPDLEKQPNENGVSVQNFEEIINLPI
 GSKPSRLDVTNSESPEIPLNPILAFDDEGTLGPLQVDGVQTQQTAEVI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6694_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_003980

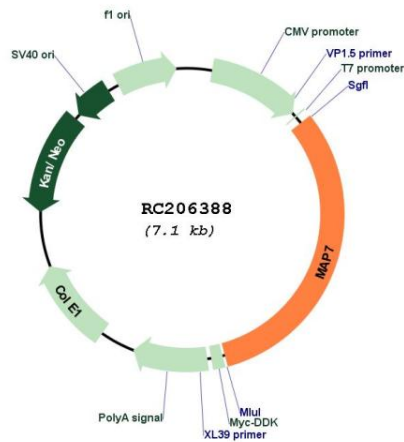
ORF Size: 2247 bp

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](#)

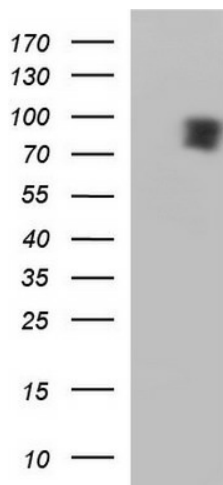
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_003980.4
RefSeq Size:	4608 bp
RefSeq ORF:	2250 bp
Locus ID:	9053
UniProt ID:	Q14244
Cytogenetics:	6q23.3
Protein Families:	Druggable Genome
MW:	84.1 kDa
Gene Summary:	The product of this gene is a microtubule-associated protein that is predominantly expressed in cells of epithelial origin. Microtubule-associated proteins are thought to be involved in microtubule dynamics, which is essential for cell polarization and differentiation. This protein has been shown to be able to stabilize microtubules, and may serve to modulate microtubule functions. Studies of the related mouse protein also suggested an essential role in microtubule function required for spermatogenesis. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2010]

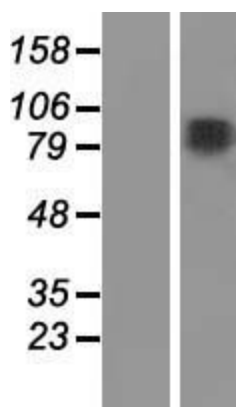
Product images:



Circular map for RC206388



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MAP7 (Cat# RC206388, 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-MAP7 (Cat# [TA590643]). Positive lysates [LY418306] (100ug) and [LC418306] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418306]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206388 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).