

Product datasheet for **RC231388**

Enconsin (MAP7) (NM_001198616) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Enconsin (MAP7) (NM_001198616) 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:

>RC231388 representing NM_001198616
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAGCTAGGAGCTGGCGGCGACGGCCACAGGGCGGGCAGCGGCGCAGTGCGAAGCGAAACAGCAC
 CCGACAGCTACAAAGTGCAGATAAGAAAAATGCCTCCAGCCGCCCTGCCTCTGCAATTTAGGACAAAA
 TAACAACCACTCAGGAAATAAACAGACCTCCGCCTGTGTTACGTGTTGATGACCGGCAGCGGCTGGCC
 CGGGAGCGACGTGAGAACGGGAGAAACAGCTAGCTGCAAGAGAAATAGTGTGGTTAGAAAGAGAAGAGC
 GAGCCAGCGACACTACGAGAAGCACCTGGAAGAGCGGAAGAAGAGGTTGGAGGAGCAGAGGCAGAAGGA
 GGAGCGGAGGAGGCTGCTGTGGAGGAGAAGCGGAGGCAGAGACTTGAGGAGGACAAAGAAGCCACGAA
 GCTGTTGTACGGCGACAATGAAAGGAGCCAGAAGCCAAAACAGAAGCATAACCGTTGGTCGTGGGAG
 GCTCTCTCCATGGGAGCCCTAGCATCCACAGTGCAGCTCGCCGCCTGCAGCTCAGCCATGGGAGAGCAG
 CGTTGTTAACAGACTCCTGACGCCACACATTCGTTTCTGGCCAGAAGTAAAAGCACAGCTGCCTTGTCT
 GGAGAAGCAGCATCTTGACGCCCATCATCATGCCCTACAAAGCTGCACACTCTAGAAAATTCGATGGATC
 GACCAAACTCTTTGTAACACCCTGAGGGCTCTTCTCGCAGGAGGATCATTATGGCAGCAGCGAGCTA
 TAAAAAGAAAGAGAGAGAGAAAATGACTCTTCTCACATCTGGCACCCGAAGGGCTGTATCTCCATCT
 AATCCCAAAGCAAGACAACAGCTCGCTCCCGACTTTGGCTTCCGTCCAAGTCTCTTCTCATTTGCCTG
 GCACACCCAGACCGACATCTCTTGGCACCCGGCTCAGTCAAAGCTGCTCTGCTCAGGTCGGCCCCC
 ATCCCCGGCAACATCCGCCCTGTAAGAGGGAAGTCAAAGTGGAGCCTGAGAAGAAAGATCCTGAGAAG
 GAACCTCAGAAAGTTGCCAATGAGCCCTCACTAAAGGGCAGAGCACCTTTAGTGAAGGTAGAAGAAGCCA
 CAGTTGAAGAGCGGACACCTGCTGAACCAAGAAGTTGGCCCTGCTGCTCCAGCCATGGCCCCAGCTCCAGC
 CTGGCCCCAGCTCCAGCCTCGGCCCCAGCTCCAGCCCCGGTCCCCACCCAGCCATGGTCTCAGCCCCG
 TCATCCACTGTGAATGCCAGTGCTTCTGTTAAGACTTCTGCAGGCACCACCGACCCAGAGGAGGCCACAA
 GGCTTCTAGCTGAGAAGAGGCGGCTGGCCCGAGAGCAGAGAGAAAAGGAAGAAAGGGAGAGGAGGGAGCA
 GGAAGAGCTTGAAGACAAAAGAGAGAGGAATTGGCTCAACGTGTGGCTGAAGAGAGGACGACTCGCCGT
 GAGGAGGAGTCGCGCAGGCTGGAAGCCGAGCAGGCCCGGAGAGGAGGAGCAGCTGCAGCGCAGGCGG
 AGGAGCGGGCGCTGCGCGAGCGGAGGAGGCAGAGCGGCCAGAGGCAGAAAGAAGAAGACTCGCGT
 TCGTGAAGAAGCAGAGAGGTCGGCAGGAACGAGAGAAGCATTCCAGAGAGAAGAGCAAGAGCGCCTG
 GAGAGAAAGAAGCGACTTGAGGAGATTATGAAAAGAACCAGGAGAACAGAAGCTACAGATAAGAAAACCA
 GTGATCAGAGAAACGGTGATATAGCCAAGGAGCTCTCACTGGAGGAACAGAGGTGTCTGCACTTCCATG
 TACAACAAACGCTCCGGGAAATGAAAGCCAGTTGGCAGCCACATGTGGTTACCTCACACCAGTCAAAA
 GTGACAGTGGAGAGCACTCCCGATTTGGAAAAACAACCAATGAAAATGGTGTATCTGTTGAGAATGAAA
 ATTTTGAAGAAATTATAAACTTACCCATTGGATCTAAACCATCCAGATTAGATGTACCAACAGTGAGAG
 CCCAGAAATTCCTTTGAATCCAATTTGGCCTTTGATGATGAAGGGACACTTGGGCCCTGCCTCAGGTA
 GATGGTGTTCAGACACAGCAGACTGCAGAAGTTATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231388 representing NM_001198616
 Red=Cloning site Green=Tags(s)

MAELGAGDGDHRRGGDGA VRSETAPDSYKVQDKKNASSRPASAI SGQNNNHSGNKPDP PPPVLRVDDRQLA
 RERREEREKQLAAREIVWLEREERARQHYEKHLEERKKRLEEQRQKEERRRAAVEEKRRQRLEEDKERHE
 AVVRRTMERSQKPKQKHNRWSWGGSLHGSPSIIHSAARRLQLSPWESSVNRLLTPHLSFLARSKSTAALS
 GEAAASCSP IIMPYKAAHSRNSMDRPKLFVTPPEGSSRRRIIHGTASYKKERERENLFLTSGTRRAVSPS
 NPKARQPARSRLWLPKSLPHLPGTPRPTSSLPPGSVKAAPAQVRPPSPGNIRPVKREVKVEPEKKDPEK
 EPQKVANEP SLKGRAPLVKVEEATVEERTPAEPEVGPAAAPAMAPAPASAPAPASAPAPAPVPTPAMVSAP
 SSTVNASASVKTSAGTTDPEEATRLLAEKRLAREQREKEERERREQEELERQKREELAQRVAEERTTRR
 EESRRLAEQAREKEEQLRQAEERALREEREAERAQRQKEEEARVREEAERVQREREKHFQREEQERL
 ERKKRLEEIMKRTRRTEATDKKTSQQRNGDIAKGAL TGGTEVSALPCTTNAPGNGKPVGSPHVVTSHQSK
 VTVESTPDLEKQPNENGVSQNFEEIINLPIGSKPSRLDVTNSESPEIPLNPI LAFDDEGTGLPLPQV
 DGVQTQQTAEVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001198616

ORF Size: 2136 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_001198616.1](#), [NP_001185545.1](#)

RefSeq ORF: 2139 bp

Locus ID: 9053

UniProt ID: [Q14244](#)

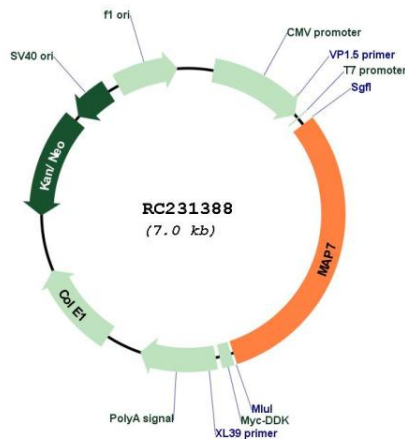
Cytogenetics: 6q23.3

Protein Families: Druggable Genome

MW: 80.4 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 RC231388