OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC231412

Ensconsin (MAP7) (NM_001198609) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ensconsin (MAP7) (NM_001198609) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ensconsin
Synonyms:	E-MAP-115; EMAP115
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC231412 representing NM_001198609
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTGGATCAGCTACAGCTCTCCGACATGAGAGACTGAAGAAGACCAATGCAAGGCCAATTCCTCTTG
GTTTATTCACCATTAATGAGGAAGACGAACAGCAAAAGAATGGAAATTCCAGAAGACCAAAAGCACCCGA
CAGCTACAAAGTGCAAGATAAGAAAAATGCCTCCAGCCGCCCTGCCTCTGCAATTTCAGGACAAAATAAC
AACCACTCAGGAAATAAACCAGACCCTCCGCCTGTGTTACGTGTTGATGACCGGCAGCGGCTGGCCCGGG
AGCGACGTGAGGAACGGGAGAAACAGCTAGCTGCAAGAGAAATAGTGTGGTTAGAAAGAGAAGAGCGAGC
CAGGCAGCACTACGAGAAGCACCTGGAAGAGCGGAAGAAGAGGTTGGAGGAGCAGAGGCAGAAGGAGGAG
CGGAGGAGGGCTGCTGTGGAGGAGAAGCGGAGGCAGAGACTTGAGGAGGACAAAGAACGCCACGAAGCTG
TTGTACGGCGCACAATGGAAAGGAGCCAGAAGCCAAAACAGAAGCATAACCGTTGGTCGTGGGGAGGCTC
TCTCCATGGGAGCCCTAGCATCCACAGTGCAGATCCAGACAGGCGGTCAGTTTCCACCATGAATCTTTCG
AAATATGTTGATCCCGTCATTAGCAAGCGGCTCTCCTCTTCATCTGCAACTTTACTAAATTCTCCAGATA
GAGCTCGCCGCCTGCAGCTCAGCCCATGGGAGAGCAGCGTTGTTAACAGACTCCTGACGCCCACACATTC
GTTCCTGGCCAGAAGTAAAAGCACAGCTGCCTTGTCTGGAGAAGCAGTTATCCCCATTTGTCCTCGTTCA
GCATCTTGCAGCCCCATCATCATGCCCTACAAAGCTGCACACTCTAGAAATTCGATGGATCGACCAAAAC
TCTTTGTAACACCACCTGAGGGCTCTTCTCGCAGGAGGATCATTCATGGCACAGCGAGCTATAAAAAAGA
AAGAGAGAGAGAAAATGTACTCTTCCTCACATCTGGCACCCGAAGGGCTGTATCTCCATCTAATCCCAAA
GCAAGACAACCAGCTCGCTCCCGACTTTGGCTTCCGTCCAAGTCTCTTCCTCATTTGCCTGGCACACCCA
GACCGACATCCTCCTTGCCACCCGGCTCAGTCAAAGCTGCTCCTGCTCAGGTCCGGCCCCCATCCCCCGG
CAACATCCGCCCTGTCAAGAGGGAAGTCAAAGTGGAGCCTGAGAAGAAAGATCCTGAGAAGGAACCTCAG
AAAGTTGCCAATGAGCCCTCACTAAAGGGCAGAGCACCTTTAGTGAAGGTAGAAGAAGCCACAGTTGAAG
AGCGGACACCTGCTGAACCAGAAGTTGGCCCTGCTGCTCCAGCCATGGCCCCAGCTCCAGCCTCGGCCCC
AGCTCCAGCCTCGGCCCCAGCTCCAGCCCCGGTCCCCACCCCAGCCATGGTCTCAGCCCCGTCATCCACT
GTGAATGCCAGTGCTTCTGTTAAGACTTCTGCAGGCACCACCGACCCAGAGGAGGCCACAAGGCTTCTAG
CTGAGAAGAGGCGGCTGGCCCGAGAGCAGAGAGAAAAGGAAGAAAGGGAGAGGAGGGAGCAGGAAGAGCT
TGAAAGACAAAAGAGAGAGGAATTGGCTCAACGTGTGGCTGAAGAGAGGACGACTCGCCGTGAGGAGGAG
TCGCGCAGGCTGGAAGCCGAGCAGGCCCGGGAGAAGGAGGAGCAGCTGCAGCGGCAGGCGGAGGAGCGGG
CGCTGCGCGAGCGGGAGGAGGCAGAGCGCGCCCAGAGGCAGAAAGAAGAAGAAGCTCGCGTTCGTGAAGA
AGCAGAGAGGGTCCGGCAGGAACGAGAGAAGCATTTCCAGAGAGAAGAGCAAGAGCGCCTGGAGAGAAAG
AAGCGACTTGAGGAGATTATGAAAAGAACCAGGAGAACAGAAGCTACAGATAAGAAAACCAGTGATCAGA
GAAACGGTGATATAGCCAAGGGAGCTCTCACTGGAGGAACAGAGGTGTCTGCACTTCCATGTACAACAAA
CGCTCCGGGAAATGGAAAGCCAGTTGGCAGCCCACATGTGGTTACCTCACACCAGTCAAAAGTGACAGTG
GAGAGCACTCCCGATTTGGAAAAACAACCAAATGAAAATGGTGTATCTGTTCAGAATGAAAATTTTGAAG
AAATTATAAACTTACCCATTGGATCTAAACCATCCAGATTAGATGTCACCAACAGTGAGAGCCCAGAAAT
TCCTTTGAATCCAATTTTGGCCTTTGATGATGAAGGGACACTTGGGCCCCTGCCTCAGGTAGATGGTGTT
CAGACACAGCAGACTGCAGAAGTTATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

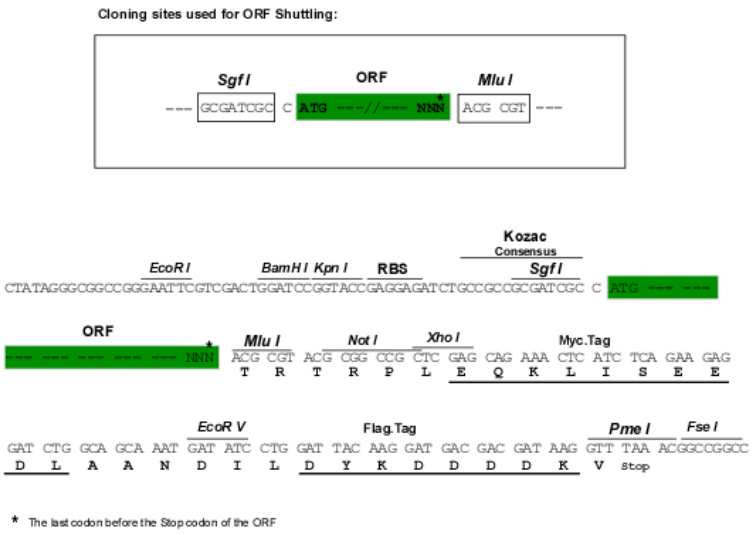
>RC231412 representing NM_001198609
Red=Cloning site Green=Tags(s)

MPGSATALRHERLKKTNARPIPLGLFTINEEDEQQKNGNSRRPKAPDSYKVQDKKNASSRPASAISGQNN
NHSGNKPDPPPVLRVDDRQRLARERREEREKQLAAREIVWLEREERARQHYEKHLEERKKRLEEQRQKEE
RRRAAVEEKRRQRLEEDKERHEAVVRRTMERSQKPKQKHNRWSWGGSLHGSPSIHSADPDRRSVSTMNLS
KYVDPVISKRLSSSSATLLNSPDRARRLQLSPWESSVVNRLLTPTHSFLARSKSTAALSGEAVIPICPRS
ASCSPIIMPYKAAHSRNSMDRPKLFVTPPEGSSRRRIIHGTASYKKERERENVLFLTSGTRRAVSPSNPK
ARQPARSRLWLPSKSLPHLPGTPRPTSSLPPGSVKAAPAQVRPPSPGNIRPVKREVKVEPEKKDPEKEPQ
KVANEPSLKGRAPLVKVEEATVEERTPAEPEVGPAAPAMAPAPASAPAPASAPAPAPVPTPAMVSAPSST
VNASASVKTSAGTTDPEEATRLLAEKRRLAREQREKEERERREQEELERQKREELAQRVAEERTTRREEE
SRRLEAEQAREKEEQLQRQAEERALREREEAERAQRQKEEEARVREEAERVRQEREKHFQREEQERLERK
KRLEEIMKRTRRTEATDKKTSDQRNGDIAKGALTGGTEVSALPCTTNAPGNGKPVGSPHVVTSHQSKVTV
ESTPDLEKQPNENGVSVQNENFEEIINLPIGSKPSRLDVTNSESPEIPLNPILAFDDEGTLGPLPQVDGV
QTQQTAEVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001198609
ORF Size:	2337 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_001198609.1, NP_001185538.1

RefSeq ORF: 2340 bp

Locus ID: 9053

UniProt ID: Q14244

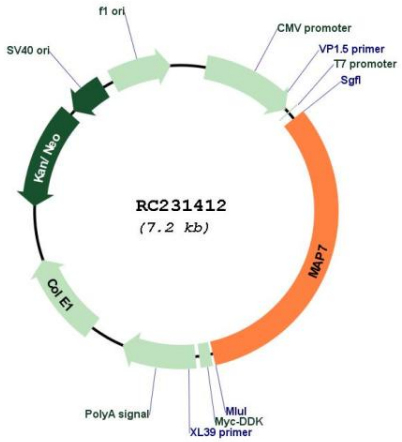
Cytogenetics: 6q23.3

Protein Families: Druggable Genome

MW: 88.3 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 RC231412