

Product datasheet for **RG206388**

Ensconsin (MAP7) (NM_003980) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ensconsin (MAP7) (NM_003980) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAP7
Synonyms:	E-MAP-115; EMAP115
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG206388 representing NM_003980
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGCTAGGAGCTGGCGGCGACGGCCACAGGGCGGCGACGGCGCAGTGCGAAGCGAAACAGCAC
CCGACAGCTACAAAGTGCAAGATAAGAAAAATGCCTCCAGCCGCCCTGCCTCTGCAATTTAGGACAAAA
TAAACAACCACTCAGGAAATAAACAGACCTCCGCCTGTGTTACGTGTTGATGACCGGCAGCGGCTGGCC
CGGGAGCGACGTGAGGAACGGGAGAAACAGCTAGCTGCAAGAGAAATAGTGTGGTTAGAAAGAGAAGAGC
GAGCCAGGCGACTACGAGAAGCACCTGGAAGAGCGGAAGAAGAGGTTGGAGGAGCAGAGGCAGAAAGGA
GGAGCGGAGGAGGCTGCTGTGGAGGAGAAGCGGAGGCAGAGACTTGAGGAGGACAAAGAAGCCACGAA
GCTGTTGTACGGCGACAATGAAAGGAGCCAGAAGCCAAAACAGAAGCATAACCGTTGGTCGTGGGGAG
GCTCTCTCCATGGGAGCCCTAGCATCCACAGTGCAGATCCAGACAGGCGGTGAGTTCCACCATGAATCT
TTCGAAATATGTTGATCCCGTCATTAGCAAGCGGCTCTCTCTTTCATCTGCAACTTTACTAAATTCTCCA
GATAGAGCTCGCCGCCTGCAGCTCAGCCATGGGAGAGCAGCGTTGTTAACAGACTCCTGACGCCACAC
ATTCGTTCTGGCCAGAAGTAAAAGCACAGCTGCCTTGTCTGGAGAAGCAGCATCTTGACGCCCATCAT
CATGCCCTACAAAGCTGCACACTCTAGAAATTCGATGGATCGACCAAACTCTTTGTAACACCACCTGAG
GGCTCTTCTCGCAGGAGGATCATTATGGCACAGCGAGCTATAAAAAAGAAAGAGAGAGAGAAAAATGTAC
TCTTCTCACATCTGGCACCCGAAGGGCTGTATCTCCATCTAATCCCAAAGCAAGACAACCCAGCTCGCTC
CCGACTTTGGCTCCCGTCCAAGTCTCTTCTCATTGCTGGCACACCCAGACCGACATCCTCCTTGCCA
CCCGCTCAGTCAAAGCTGCTCCTGCTCAGGTCGGGCCCATCCCCGGCAACATCCGCCCTGTCAAGA
GGGAAGTCAAAGTGGAGCCTGAGAAGAAAGATCCTGAGAAGGAACCTCAGAAAGTTGCCAATGAGCCCTC
ACTAAAGGGCAGAGCACCTTTAGTGAAGGTAGAAGAACACAGTTGAAGAGCGGACACCTGCTGAACCA
GAAGTTGGCCCTGCTGCTCCAGCCATGGCCCCAGCTCCAGCCTCGGCCCCAGCTCCAGCCTCGGCCCCAG
CTCCAGCCCGGTCCCCACCCAGCCATGGTCTCAGCCCGTCCACTGTGAATGCCAGTGCTTCTGT
TAAGACTTCTGCAGGCACCACCGACCCAGAGGAGGCCACAAGGCTTCTAGCTGAGAAGAGGGCGCTGGCC
CGAGAGCAGAGAGAAAAGGAAGAAAGGGAGAGGAGGGAGCAGGAAGAGCTTGAAAGACAAAAGAGAGAGG
AATTGGCTCAACGTGTGGCTGAAGAGAGGACGACTCGCCGTGAGGAGGAGTGCAGCAGGCTGGAAGCCGA
GCAGGCCCGGGAAGGAGGAGCAGCTGCAGCGGAGGCGGAGGAGCGGGCGCTGCGCGAGTGGGAGGAG
GCAGAGCGGCCAGAGGCAGAAAGAAGAAGACTCGCGTTCGTGAAGAAGCAGAGAGGGTCCGCGCAGG
AACGAGAGAAGCATTTCAGAGAGAAGCAAGAGCGCCTGGAGAGAAAGAGCGACTTGAGGAGATTAT
GAAAAGAACCAGGAGAACAAGCTACAGATAAGAAAACCAAGTATCAGAGAAACGGTGATATAGCCAAG
GGAGCTCTCACTGGAGGAACAGAGGTGTCTGCACTTCCATGTACAACAAACGCTCCGGGAAATGAAAGC
CAGTTGGTAGCCACATGTGGTTACCTCACACCAAGTCAAAGTGACAGTGGAGAGCACTCCCGATTGGAA
AAAACAACCAATGAAAATGGTGTATCTGTTGAGAATGAAAATTTGAAGAAATTATAAATTACCCATT
GGATCTAAACCATCCAGATTAGATGTCACCAACAGTGAGAGCCAGAAATTCCTTTGAATCCAATTTGG
CCTTTGATGAAGGGACACTTGGGCCCTGCCTCAGGTAGATGGTGTTCAGACACAGCAGACTGCAGAA
AGTTATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206388 representing NM_003980
 Red=Cloning site Green=Tags(s)

MAELGAGDGHRRGGDGA VRSETAPDSYKVQDKKNASSRPASAI SGQNNNHSGNKPDPPPVLRVDDRQLA
 RERREEREKQLAAREIVWLEREERARQHYEKHLEERKKRLEEQRQKEERRRAAVEEKRRQRLEEDKERHE
 AVVRRTMERSQPKPKQKHNRWSWGGSLHGSPSIHSADPDRRSVSTMNLSKYVDPVISKRLSSSSATLLNSP
 DRARRLQLSPWESSVVNRLLTPTHSFLARSKSTAALSGEAASCSP IIMPYKAAHSRNSMDRPFKLFVTPPE
 GSSRRRIIHGTASYKKERENVLFLTSGTRRAVSPSNPKARQPARSRLWLPKSLPHLPGTPRPTSSLP
 PGSYKAAAPAQVRPPSPGNIRPVKREVKVEPEKKDPEKEPQKVANEP SLKGRAPLVKVEEATVEERTPAEP
 EVGPAAPAMAPAPASAPAPASAPAPAPVPTPAMVSAPSSTVNASASYKTSAGTTDPEEATRLLAEKRRLA
 REQREKEERERREQEELERQKREELAQRVAEERTTRREEESRRLAEQAREKEEQLRQAEEERALREWEE
 AERAQRQKEEEARVREEAERVQREREKHFQREEQERLERKKRLEEIMKRTRRTEATDKKTSQQRNGDIAK
 GALTGGEVSALPCTTNAPGNGKPVGSPHVVTS HQSKVTVESTPDLEKQPNENGVSQNFEEIINLPI
 GSKPSRLDVTNSESPEIPLNPILAFDDEGTLGPLQVDGVQTQQTAEVI

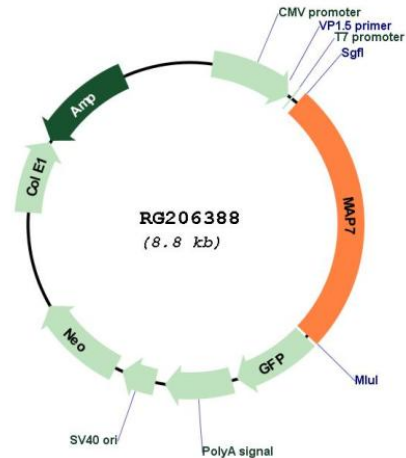
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


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:

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_003980.3](#), [NP_003971.1](#)

RefSeq Size: 4018 bp

RefSeq ORF: 2250 bp

Locus ID: 9053

UniProt ID: [Q14244](#)

Cytogenetics: 6q23.3

Protein Families: Druggable Genome

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]