

## Product datasheet for **RG231388**

### 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:	TurboGFP
Symbol:	Enconsin
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:**

>RG231388 representing NM\_001198616  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGAGCTAGGAGCTGGCGGCGACGGCCACAGGGGCGGCGACGGCGCAGTGCGAAGCGAAACAGCAC  
 CCGACAGCTACAAAGTGCAGATAAGAAAAATGCCTCCAGCCGCCCTGCCTCTGCAATTTAGGACAAAA  
 TAACAACCACTCAGGAAATAAACAGACCTCCGCCTGTGTTACGTGTTGATGACCGGCAGCGGCTGGCC  
 CGGGAGCGACGTGAGGAACGGGAGAAACAGCTAGCTGCAAGAGAAATAGTGTGGTTAGAAAGAGAAGAGC  
 GAGCCAGCGACACTACGAGAAGCACCTGGAAGAGCGGAAGAAGAGGTTGGAGGAGCAGAGGCAGAAAGGA  
 GGAGCGGAGGAGGCTGCTGTGGAGGAGAAGCGGAGGCAGAGACTTGAGGAGGACAAAGAACGCCACGAA  
 GCTGTTGTACGGCGACAATGAAAGGAGCCAGAAGCCAAAACAGAAGCATAACCGTTGGTCGTGGGGAG  
 GCTCTCTCCATGGGAGCCCTAGCATCCACAGTGCAGCTCGCCGCCTGCAGCTCAGCCATGGGAGAGCAG  
 CGTTGTTAACAGACTCCTGACGCCACACATTCGTTTCTGGCCAGAAGTAAAAGCACAGCTGCCTTGTCT  
 GGAGAAGCAGCATCTTGACGCCCATCATCATGCCCTACAAAGCTGCACACTCTAGAAAATTCGATGGATC  
 GACCAAACTCTTTGTAACACCCTGAGGGCTCTTCTCGCAGGAGGATCATTATGGCAGCAGCGAGCTA  
 TAAAAAGAAAGAGAGAGAGAAAATGACTCTTCTCACATCTGGCACCCGAAGGGCTGTATCTCCATCT  
 AATCCCAAAGCAAGACAACAGCTCGCTCCCGACTTTGGCTTCCGTCCAAGTCTCTTCTCATTTGCCTG  
 GCACACCAGACCGACATCTCTTGGCACCCGGCTCAGTCAAAGCTGCTCTGCTCAGGTCGGGCCCC  
 ATCCCCGGCAACATCCGCCCTGTAAGAGGGAAGTCAAAGTGGAGCCTGAGAAGAAAGATCCTGAGAAG  
 GAACCTCAGAAAGTTGCCAATGAGCCCTCACTAAAGGGCAGAGCACCTTTAGTGAAGGTAGAAGAAGCCA  
 CAGTTGAAGAGCGGACACTGTGAACCAAGAAGTTGGCCCTGCTGCTCCAGCCATGGCCCCAGCTCCAGC  
 CTGGGCCCCAGCTCCAGCCTCGGCCCCAGCTCCAGCCCGGTCCCCACCCAGCCATGGTCTCAGCCCCG  
 TCATCCACTGTGAATGCCAGTGCTTCTGTTAAGACTTCTGCAGGCACCACCGACCCAGAGGAGGCCACAA  
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 GGAAGAGCTTGAAGACAAAAGAGAGAGGAATTGGCTCAACGTGTGGCTGAAGAGAGGACGACTCGCCGT  
 GAGGAGGAGTCGCGCAGGCTGGAAGCCGAGCAGGCCCGGGAAGGAGGAGCAGCTGCAGCGCAGGCGG  
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 TACAACAAACGCTCCGGGAAATGAAAAGCCAGTTGGCAGCCACATGTGGTTACCTCACACCAGTCAAAA  
 GTGACAGTGGAGAGCACTCCCGATTTGGAAAAACAACCAATGAAAATGGTGTATCTGTTGAGAATGAAA  
 ATTTTGAAGAAATTATAAACTTACCCATTGGATCTAAACCATCCAGATTAGATGTACCAACAGTGAGAG  
 CCCAGAAATTCCTTTGAATCCAATTTGGCCTTTGATGATGAAGGGACACTTGGGCCCTGCCTCAGGTA  
 GATGGTGTTCAGACACAGCAGACTGCAGAAGTTATA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

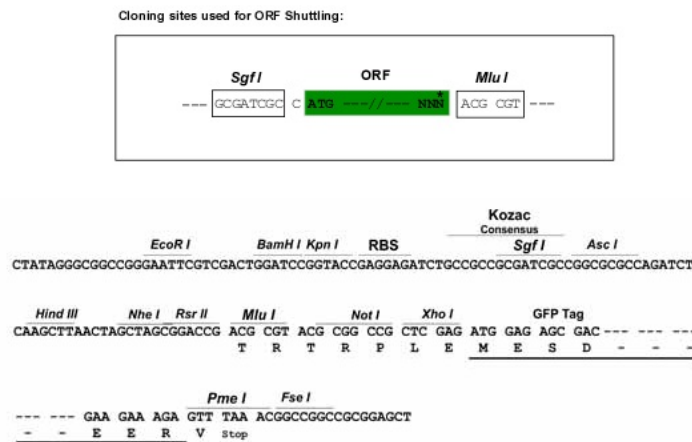
**Protein Sequence:** >RG231388 representing NM\_001198616  
Red=Cloning site Green=Tags(s)

MAELGAGGDGHRGGDGAVRSETAPDSYKVQDKKNASSRPASAI SGQNNNHSGNKPDPVLRVDDRQLA  
 RERREEREKQLAAREIVWLEREERARQHYEKHLEERKKRLEEQRQKEERRRAAVEEKRRQRL EEDKERHE  
 AVVRRMTMERSQPKPKQKHNRWSWGGSLHGSPSIHSAARRLQLSPWESSVNRLLTPTHSFLARSKSTAALS  
 GEAAASCPIIMPYKAAHSRNSMDRPKLFVTPPEGSSRRRIIHGTASYKKERERENVLFLTSGTTRRAVSPS  
 NPKARQPARSRLWLPKSLPHLPGTPRPTSSLPPGSVKAAPAQVRPPSPGNIRPVKREVKVEPEKKDPEK  
 EPQKVANEPSLKGRAPLVKVEEATVEERTPAEPEVGPAAAPAMAPAPASAPAPASAPAPVPTPAMVSAP  
 SSTVNASASVKTSAGTTDPEEATRLLAEKRLAREQREKEERERREQEELERQKREELAQRVAEERTTRR  
 EESRRLAEQAREKEEQLRQAEERALREEEAERAQRQKEEEARVREEAERVQREREKHFQREEQERL  
 ERKKRLEEIMKRTRRTEATDKKTSQQRNGDIKAGAL TGGTEVSALPCTTNAPGNGKPVGSPHVVTSHQSK  
 VTVESTPDLEKQPNENGVSQNFEEIINLPIGSKPSRLDVTNSE SPEIPLNPILAFDDEGTGLPLPQV  
 DGVQTQQTAEVI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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 Size:** 4497 bp

**RefSeq ORF:** 2139 bp

**Locus ID:** 9053

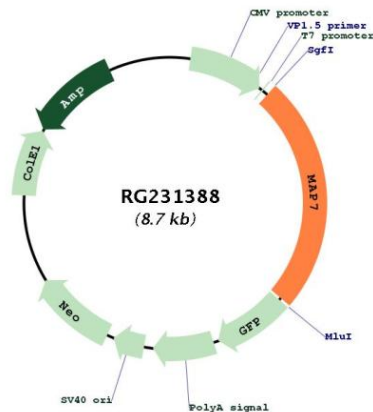
**UniProt ID:** [Q14244](#)

**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]

### Product images:



Circular map for RG231388