

Product datasheet for **RG202216**

EMP3 (NM_001425) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: EMP3 (NM_001425) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: EMP3
Synonyms: YMP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202216 representing NM_001425
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTACTCTTGGTGGTCTCAGCCCTTCACATCCTCATTCTTATACTGCTTTTCGTGGCCACTT
 TGGACAAGTCCTGGTGGACTCTCCCTGGGAAAGAGTCCCTGAATCTCTGGTACGACTGCACGTGGAACAA
 CGACACAAAACATGGGCTGCAGTAATGTCAGCGAGAATGGCTGGCTGAAGCGGTGCAGGTCCTCATG
 GTGCTCTCCCTCATTCTCTGCTGTCTCTCTTCATCCTGTTTCAGCTTACACCATGCGACGAG
 GAGGTCTCTTCTATGCCACCGGCTCTGCCAGCTTGCACCAGCGTGGCGGTGTTTACTGGCGCCTTGAT
 CTATGCCATCCACGCCGAGGAGATCCTGGAGAAGCACCCGCGAGGGGGCAGCTTCGGATACTGCTTCGCC
 CTGGCCTGGGTGGCTTCCCCTCGCCCTGGTCTAGCGGCATCATCTACATCCACCTACGGAAGCGGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202216 representing NM_001425
 Red=Cloning site Green=Tags(s)

MSLLLLVVSALHILILILLFVATLDKSWWTLPGKESLNLWYDCTWNNDTKTWACSNVSENGWLKAVQVLM
 VLSLILCLSIFILFMFLYTMRRGGLFYATGLCQLCTSVAVFTGALIYAIHAEEILEKHPRGGSFGYCF
 LAWVAFPLALVSGIYIHLRKRE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001425

ORF Size: 489 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_001425.1](#), [NP_001416.1](#)

RefSeq Size: 817 bp

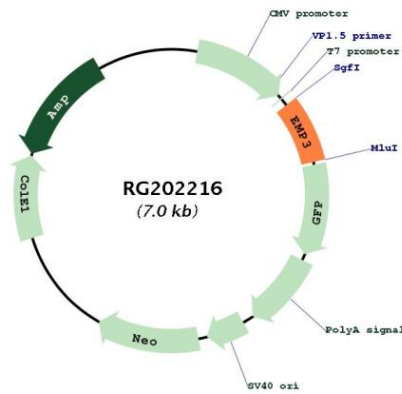
RefSeq ORF: 492 bp

Locus ID: 2014

UniProt ID: [P54852](#)

Cytogenetics: 19q13.33
Domains: PMP22_Claudin
Protein Families: Transmembrane
Gene Summary: The protein encoded by this gene belongs to the PMP-22/EMP/MP20 family of proteins. The protein contains four transmembrane domains and two N-linked glycosylation sites. It is thought to be involved in cell proliferation, cell-cell interactions and function as a tumor suppressor. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Product images:



Circular map for RG202216