

Product datasheet for **RG214008**

FMNL1 (NM_005892) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FMNL1 (NM_005892) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FMNL1
Synonyms:	C17orf1; C17orf1B; FHOD4; FMNL; KW-13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214008 representing NM_005892 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAACGCGGCCGAGCGCCGAGCAGCCCGCGGGCCCCGCGCCGCCCCCAAGCAGCCCGCGC
CTCCAAGCAGCCGATGCCCGCGCCGGAGAGCTGGAGGAGAGGTTCAACCGGCCCTGAACTGCATGAA
CTTGCCCCAGACAAGGTCCAGCTGCTGAGCCAGTATGACAACGAGAAGAAGTGGGAGCTCATCTGTGAT
CAGGAGCGGTTTCAAGTCAAGAATCCCCCGCAGCCTACATCCAGAAGCTGAAGAGCTATGTGGATACTG
GTGGGGTCAGCCGAAAGGTAGCAGCTGATTGGATGTCCAACCTGGGGTTAAGAGGCGAGTTCAGGAGTC
CACGCAGGTGCTACGGGAGCTGGAGACCTCCCTGAGGACCAACCACATTGGGTGGGTGCAGGAGTTCCTC
AATGAAGAGAACCGTGGCCTGGATGTGCTGCTCGAGTACCTGGCCTTTGCCAGTGCTCTGTACAGTATG
ACATGGAGAGCACAGACAACGGGGCTTCCAACCTCAGAGAAAAACAAGCCCTGGAGCAGTCTGTGGAAGA
CCTCAGCAAGGGTCCACCCTCCTCCGTGCCAAAAGCCGCCACCTGACCATCAAGCTGACCCAGCCAC
AGCAGGAAGGCCCTGCGGAATCCCGCATCGTCAGCCAGAAGGACGACGTCCACGTCTGTATTATGTGCC
TACGCGCCATCATGAACTACCAGTCTGGCTTCAAGCTTGTGATGAACACCCAGCCTGTGTCAATGAGAT
TGCTCTGAGCCTCAACAACAAGAACCCAGAACCAAGGCTCTGGTGTGGAGCTGCTGGCGGCCGTGTGC
TTGGTGGCGGGAGGACATGACATCATCTTGCAGCCTTTGACAACCTCAAGGAGGTGTGTGGGGAGCAGC
ACCGCTTTGAAAAGCTGATGGAATATTTCCGGAATGAGGACAGCAACATCGACTTCATGGTGGCCTGCAT
GCAGTTTCAACATTGTGGTACATTCCGTGGAGAACATGAACTTCCGTGTCTTCTGCAATATGAGTTC
ACCCACTTGGCCTGGACCTGTACTTGGAGAGGCTTCGGCTCACCGAGAGTGACAAGCTGCAGGTGCAGA
TCCAGGCGTACCTGGACAATATTTTGTGTGGGGCGCTGCTGGAGGACACAGAGACCAAGAACGCTGT
GCTGGAGCACATGGAGAACTGCAGGAGCAAGTGGCGTCTGACAGAGCGGCTTCGGGACGCGGAGAAC
GAATCCATGGCCAAGATTGCAGAACTGGAAAAACAGCTAAGCCAGGCGCGCAAGGAGTTGGAGACCTGC
GGGAGCGCTTCAAGCAATCGACCGCCATGGCGCCTCCAGGCGTCCCCAGAGCCTGAGAAAAGCGCTCC
CGTGCCCGACGCGCCCTCGGCCCTGGAGCTGAAGGTGGAGGAGCTGGAGGAGAAGGGTTAATCCGT



[View online >](#)

```

ATTCTGCGGGGGCCGGGGATGCTGTCTCCATCGAGATCCTCCCCGTCGCTGTGGCAACTCCGAGCGGC
GTGATGCTCCGACTCCGGGGTCCGACCGGCTCCCCAGCCAGATCTCGCACCTGCAGCAGAGCCGGC
TCCCGGAGCAGCGCCACC GCCCGCCGCCACTGCCCGGCTCCCTCCCCGAGGAAGCCCCGCCCTCT
GCGCCCCACAGGCCCGCTCTCCCTGGCAGCCCGGAGCCCCGCTGCGCCGCGCTGCCCGGAGACC
TGCCGCCCCACCCCGCCACC GCCACCCTCCGGGACTGACGGGCGGTGCCCTCCGCCGCCCGCC
GCCCGCCGCTCCCGGAGTCTCTGATGCCCTAGGAAGACGCGACTCAGAATTGGGCCAGGAGTG
AAGGCCAAGAAGCCCATCCAGACTAAGTCCGAATGCCACTTTGAACTGGGTGGCAGTAAACCCAGC
AGATCACCGGCACTGTCTTCCACAGAGCTCAATGATGAGAAGGTGCTGCAGGAGCTAGACATGAGTGATTT
TGAGGAACAGTTCAAGACCAAGTCCCAAGGCCAGCCTGGACCTCAGCGCTCTCAAGAGTAAGGACGC
CAGAAGGCCCCAGCAAGGCGACTCATTGAGGCCAACCGGCCAAGAATTGGCCATCACCTGCGGA
AGGGCAACTGGGGCCGAGCGCATCTGCCAAGCATTGAGGCGTACGACCTGCAGGCTCTGGCCCTGGA
CTTCTGGAGCTGCTGATGCGCTTCTGCCACAGAGTATGAGCGCAGCCTCATCACCGCTTTGAGCGG
GAGCAGCGCCAAATGGAGGAGCTGTCAGAGGAGGACCGCTTATGCTATGCTTACGCCGATCCCGGCC
TGCCGGAGCGCATGACCACACTACCTTCTGGGCAACTCCCGACACAGCCAGCTGCTCATGCCGA
ACTGAATGCCATATTGCAGCCTCAATGCCATCAAGTCTCTGACAACTCCGCCAGATCTGGAGATT
GTCTGGCCTTTGGCAACTACATGAACAGTAGCAAGCGTGGGGCAGCCTATGGCTTCCGGCTCCAGAGCC
TGGATGCGCTGTTGGAGATGAAGTCGACTGATCGCAAGCAGACGCTGCTGCACTACCTGGTGAAGGTCAT
TGCTGAGAAGTACCCGCAACTCACAGGCTTCCACAGCGACTGCACTTCTGGACAAGCGGGCTCAGTG
TCCCTGGACAGTGTCTGGCGGACGTGCGCTCCCTGCAGCGAGGCTAGAGTTGACACAGAGAGAGTTTG
TGCGGCAGGATGACTGCATGGTGTCAAGGAGTCTGAGGGCCAACCGCCACCATGGACAAGCTGCT
GGCAGACAGCAAGACGGCTCAGGAGGCTTTGAGTCTGTGGTGGAGTACTTCGGAGAGAACCCCAAGACC
ACATCCCAGGCTGTTCTTCTCCCTCTTAGCCGCTTCAATTAAGGCCTACAAGAAAGCTGAGCAGGAGG
TGGAACAGTGGAAAAAAGAGCCGCTGCCAGGAGGCGGCTGATACCCGGGCAAGGGGAGCCGCC
AGCACCCAAGTACCCGCCAAGGCCCGGGCCACAGATGGACCTCATCTCTGAGCTGAAACGGAGGCAG
CAGAAGGAGCCACTATTATGAGAGCGACCGTATGGGGCCATTGAAGCATCATCACAGTATCAAGA
CGGTGCCCTTACGGCCCGCACC GGCAAGCGGACATCCCGGCTCTCTGTGAGGCCAGCCTGGGAGAAGA
GATGCCCTC
    
```

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214008 representing NM_005892
 Red=Cloning site Green=Tags(s)

```

MGNAAGSAEQPAGPAAPPKQPAPPKQMPAAGELEERFNRLNLCMNLPPDKVQLLSQYDNEKKWELICD
QERFQVKNPPAAYIQKLSYVDTGGVSRKVAADWMSNLGFKRRVQESTQVLRLETSRNTNHIGWVQEF
NEENRGLDVLLEYLAFQAQCSVTYDMESTDNGASNSEKNKPLEQSVEDLSKGPPSSVPKSRHLTIKLT
SRKALRNSRIVSQKDDVHVCIMCLRAIMNYQSGFSLVMNHPACVNEIALSLNKNPRTKALVLELLA
LVRGGHDIILAAFDNFKEVCGEQHRFEKLEMEYFRNEDSNIDFMVACMQFINIVVHSVENMFRVFL
YEFTHLGLDLYLERLRLTESDKLQVQIQAYLDNIFDVGALLEDETETKNAVLEHMEELQEQVALL
TERLRDAENESMAKIAELEKQLSQARKELETLRERFSESTAMGASRRPPEPEKAPPAAPTRPSALE
LKVVEELEEKGLIRILRGPDAVSIIEILPVAVATPSGGDAPTPGVPTGSPDLAPAAEPAPGAAP
PPPPPLPGLPSPQEAPPSAPPQAPPLPGSPEPPPAPPLPGDLPPPPPPPPPPGTGDPVPPPPPP
PPPPGGPPDALGRRDSELGPGVKAKKPIQTKFRMPLLNWVALKPSQITGTVFTELNDEKVLQELD
MSDFEEQFKTKSQGPSLDLSALKSKAAQKAPSKATLIEANRAKNLAITLRKGNLGAERICQAI
EAYDLQALGLDFLELLMRFLPTEYERSLITRFEREQRPMEELESEDRFMLCFSRIPRLPERM
TTLTFLGNFPDTAQLLMPQLNIIAASMSIKSSDKLRQILEI VLAFGNYMNSSKRGAAYGFR
LQSLDALLEMKSTDRKQTLHLYLVKVIKAEKYPQLTGFHSDLHFLDKAGSVSLDSVLADVRS
LQRGLELTQREFVRQDDCMVLEKFLRANSPTMDKLLADSKTAQEAFAFESVVEYFGENPKT
TSPGLFFSLFSRFIKAYKAEQVEQWKKEAAAQEAAGADTPGKGEPAPKSPKARRPQMDLISEL
KRRQKEPLIYESDRDGAIEDIITVIKTVPFARTGKRTSRLLCEASLGEEMPL
    
```

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_005892

ORF Size: 3300 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

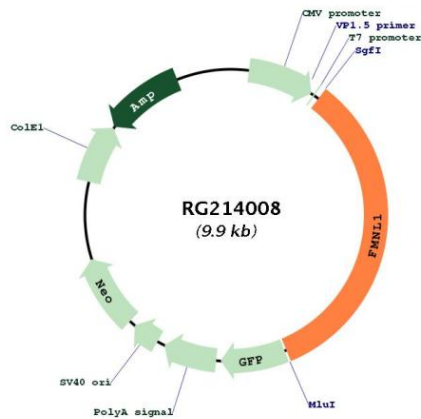
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_005892.3, NP_005883.2](#)
RefSeq Size: 3973 bp
RefSeq ORF: 3303 bp
Locus ID: 752
UniProt ID: [O95466](#)
Cytogenetics: 17q21.31
Domains: FH2

Gene Summary: This gene encodes a formin-related protein. Formin-related proteins have been implicated in morphogenesis, cytokinesis, and cell polarity. An alternative splice variant has been described but its full length sequence has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG214008