

Product datasheet for **RG214942**

OLFM4 (NM_006418) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OLFM4 (NM_006418) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OLFM4
Synonyms:	bA209J19.1; GC1; GW112; hGC-1; hOLfD; OlfD; OLM4; UNQ362
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG214942 representing NM_006418
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGCCGGCCTCTCATTTCCTAGCCCTTCTGTTCTCCTTGCCAAAGCTGCAGGGGATTTGGGGG
 ATGTGGGACCTCCAATCCAGCCCGGCTTCAGCTCTTCCAGGTGTTGACTCCAGCTCCAGCTTCAG
 CTCAGCTCCAGGTCGGGCTCCAGCTCCAGCCGAGCTTAGGCAGCGGAGTTCTGTGTCCAGTTGTTT
 TCCAATTCACCGGCTCCGTGGATGACCGTGGGACCTGCCAGTGTCTGTTCCCTGCCAGACACCCT
 TTCCCGTGGACAGAGTGAACGCTTGAATTACAGCTCATGTTCTTCTCAGAAGTTTGAGAAAGAACT
 TTCCAAAGTGAGGAATATGTCCAATTAATTAGTGTGTATGAAAAGAACTGTTAAACCTAACTGCCGA
 ATTGACATCATGGAGAAGGATACCATTTCTTACACTGAACTGGACTTCGAGCTGATCAAGGTAGAAGTA
 AGGAGATGGAAAAGTGGTCATACAGCTGAAGGAGAGTTTGGTGAAGCTCAGAAATTGTTGACCAGCT
 GGAGGTGGAGATAAGAAATATGACTCTCTTGGTAGAGAAGCTTGAGACTAGACAAAAAATGCCTT
 GCCATTCGCCGAGAAATCGTGGCTCTGAAGACCAAGCTGAAAGAGTGTGAGGCCTCTAAAGATCAAACA
 CCCCTGTCGTCCACCCTCTCCACTCCAGGGAGCTGTGGTCATGGTGGTGTGGTGAACATCAGCAAACC
 GTCTGTGGTTCAGCTCAACTGGAGAGGGTTTTCTTATCTATATGGTGTGGGGTAGGGATTACTCTCC
 CAGCATCAAACAAGGACTGTATTGGTGGCGCCATTGAATACAGATGGGAGACTGTTGGAGTATTATA
 GACTGTACAACACTGGATGATTTGCTATTGTATATAAATGCTCGAGAGTTGCGGATCACCTATGGCCA
 AGGTAGTGGTACAGCAGTTTACAACAACAATGTACGTCAACATGTACAACCCGGGAATATTGCCAGA
 GTTAACCTGACCACCAACAGATTGCTGTGACTCAAACCTCCCTAATGCTGCCTATAATAACCGCTTTT
 CATATGCTAATGTTGCTTGGCAAGATATTGACTTTGCTGTGGATGAGAATGGATTGTTGTTATTTATTC
 AACTGAAGCCAGCACTGGTAACATGGTATTAGTAACTCAATGACACCACACTTCAGGTGCTAAACACT
 TGGTATACCAAGCAGTATAAACCATCTGCTTCTAACGCCTTCATGGTATGTGGGTTCTGTATGCCACCC
 GTACTATGAACACCAGAAGAGAGATTTTTTACTATTATGACACAAACACAGGAAAGAGGGCAAACCT
 AGACATTGTAATGCATAAGATGCAGGAAAAAGTGCAGAGCATTAACTATAACCCTTTTGACCAGAAACT
 TATGTCTATAACGATGGTTACCTTCTGAATTATGATCTTCTGTCTTGCAGAAGCCCCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214942 representing NM_006418
 Red=Cloning site Green=Tags(s)

MRPGLSFLALLFLLGQAAGDLGDVGPPIPSPGFSSFPVDSVSSSSRSGSSSRSLGSGSVSOLF
 SNFTGVSDDRGTQCQSVSLPDTTFPVDRVERLEFTAHVLSQKFEKELSKVREYVQLISVYEKLLNLTVR
 IDIMEKDTISYTELDFELIKVEVKEMEKLVIQLKESFGGSSEIVDQLEVEIRNMTLLVEKLETLDKNNVL
 AIRREIVALKTKLKECEASKDQNTPVVHPPPTPGSCGHGGVNI SKPSVVQLNWRGFSYL YGAWGRDYSP
 QHPNKGLYWVAPLNTDGRLLLEYRLYNTLDDLLYINARELRITYQGSGTAVYNNMYVNMNTGNIAR
 VNLTTNTIAVTQTL PNAAYNNRFSYANVAWQDIDFAVDENGLWVIYSTEASTGNMVISKLNDDTLQVLNT
 WYTKQYKPSASNAFMVCGVLYATRTMNRTEEIFYYDNTNGKEGKLDIVMHKMQEKVQSINYNPFQKL
 VVYNDGYLLNYDLSVLQKPKQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_006418

ORF Size: 1530 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_006418.5](#)

RefSeq Size: 2844 bp

RefSeq ORF: 1533 bp

Locus ID: 10562

UniProt ID: [Q6UX06](#)

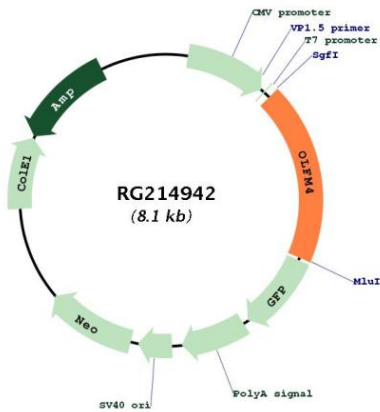
Cytogenetics: 13q14.3

Domains: OLF

Protein Families: Druggable Genome

Gene Summary: This gene was originally cloned from human myeloblasts and found to be selectively expressed in inflamed colonic epithelium. This gene encodes a member of the olfactomedin family. The encoded protein is an antiapoptotic factor that promotes tumor growth and is an extracellular matrix glycoprotein that facilitates cell adhesion. [provided by RefSeq, Mar 2011]

Product images:



Circular map for RG214942