

Product datasheet for **RG216623**

Folate Receptor 4 (IZUMO1R) (NM_001080486) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Folate Receptor 4 (IZUMO1R) (NM_001080486) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FOLR4
Synonyms:	folate receptor 4 (delta) homolog; folate receptor 4 (delta) homolog (mouse); Folbp3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216623 representing NM_001080486 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATGCTGGTGGCCGCTCCTGCTAGAGCTGTGGACAGTCATGCCACCTGGGCTGGGGACGAGCTGC
TCAACATCTGCATGAATGCCAAACACCACAAGAGAGTCCCAGCCCAGAAGACAAGCTCTATGAGGAGTG
CATCCCCTGGAAGGACAATGCCTGCTGCACCCTCAGACAAGCTGGGAAGCCCATCTGGATGTATCCCCA
CTCTACAACTTCAGCCTGTTTCACTGTGGACTGCTGATGCCTGGCTGTCGGAAGCACTTCATCCAGGCTA
TCTGCTTCTATGAGTGTCCCCAAACCTGGGGCCCTGGATCCAGCCAGTGGCCCCGAGTGGGCAGGGAGA
GCGAGTTGTGAATGTGCCGCTGTGCCAGGAGACTGTGAGGAGTGGTGGGAAGACTGTCCGATGTCTTAC
ACATGCAAATCCAACCTGGCGTGGTGGCTGGGACTGGAGTCAGGGGAAGAACCCTGCCCCAAAGGGGCC
AGTGCCTCCCTTCTCCATTACTTCCCCACCCAGCTGACCTGTGTGAGAAGACTTGGAGCAATTCCTT
CAAAGCCAGCCCTGAGCGACGGAACAGTGGGCGGTGTCTCCAGAAGTGGTTTGGAGCTGCTCAGGGCAAC
CCAATGTGGCCGTGGCCCGCTTTCGCCAGCTTCCCCATCTGGGAACTGTCTACACCATCATGG
TCTGCTCCCTGTCTCCGTTCCCTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216623 representing NM_001080486
Red=Cloning site Green=Tags(s)

MACWWPLLELWTVMPTWAGDELLNICMNAKHHKRVSPEDKLYEECIPWKDNACCTLTTSWEAHLDVSP
 LYNFSLFHCGLLMPGCRKHF IQAICFYECSPNLGPWIQPVAPSGQGERVVNVPLCQEDCEEWWEDCRMSY
 TCKSNWRGGWDSQGNRCPKGAQCLPF SHYFPTPADLCEKTWSNSFKASPERRNSGRCLQKWFEP AQGN
 PNVAVARLFASSAPSWELSYTIMVCSLFLPFLS

TRTRPLE - GFP Tag - V

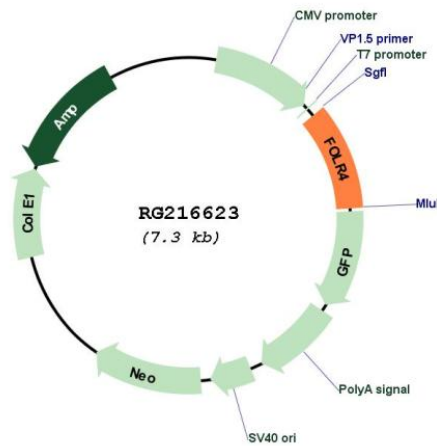
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001080486

ORF Size: 728 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:	<ol style="list-style-type: none">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_001080486.1 , NP_001073955.1
RefSeq Size:	732 bp
RefSeq ORF:	731 bp
Locus ID:	390243
Cytogenetics:	11q21
Gene Summary:	Receptor for IZUMO1 present at the cell surface of oocytes (oolemma), which is essential for species-specific gamete recognition and fertilization. The IZUMO1:IZUMO1R/JUNO interaction is a necessary adhesion event between sperm and egg that is required for fertilization but is not sufficient for cell fusion. The ligand-receptor interaction probably does not act as a membrane 'fusogen'. Does not bind folate.[UniProtKB/Swiss-Prot Function]