

Product datasheet for **RC212594**

FGD3 (NM_033086) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | FGD3 (NM_033086) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | FGD3 |
| Synonyms: | ZFYVE5 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC212594 representing NM_033086
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTCAGGCAGGGGGTCTCAACCCCTCCAGGACCCATTGCTGCCCTAGGGATGCCAGACACTGGGC
 CTGGCAGTTCCTCCCTAGGGAAGCTTCAGGCGCTCCCTGTTGGGCCAGAGCCCACTGTGGGACCCCTGT
 CAGCCTGGCTGCAGCAGGGGACGGCTCTCCAGACATAGGCCCCACGGGAGAGCTGAGTGGTAGCTTAAAG
 ATCCCCAACCGGGACAGCGGGATCGACAGTCCCTCCTCCAGTGTGGCTGGAGAGAACTTTCCCTGCGAGG
 AGGGCTTGGAGGCTGGCCCAAGCCCACTGTACTGGGGCGCACGCAGAGATGGCCCTGGACAGCCAGGT
 CCCGAAGGTACCCCCAGGAGGAGGGACAGCGACGTGGGTGAGGAACCTGACTCTGAGAACACCCCC
 CAGAAGGTGACAAGGATGCCGGCTGGCCAGCACTCTGGCCCCAGAAGCTTCTCCACATTGCCCAGG
 AGCTCCTGCACACCGAGGAGACCTATGTGAAGCGGCTGCACCTGTGGACCAGGTTTTCTGCACCAGGCT
 GACGGATCGGGGATCCCTCCAGAAGTCATCATGGGCATATTCTCTAACATCTCCTCCATCCACCGCTTC
 CACGGGACGTTCCCTGCTGCCGGAGCTGAAGACGCGGATCACGGAGGAGTGGGACACAAACCCACGGCTCG
 GGGACATCCTGCAGAAGCTGGCCCCATTCTGAAGATGTACGGCGAGTATGTCAAGAACTTTGACCGAGC
 CGTAGGGCTGGTGAACAGTGGACCCAGCGCTCCCACTGTTAAAGACGTGTCACAGCATCCAGAAG
 CAGGAGGTATGCGGGAACCTGACGCTGCAGCACCACATGCTGGAGCCCGTGCAGAGGGTCCCCCGGTACG
 AGCTGTGCTCAAGGACTATCTGAAGAGGCTCCCGCAGGACGCCCCAGACCGGAAGGATGCGGAGAGGTC
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 CTCTTGGAGGTGTACGAGCAGCTGGGTGGGAAGAAGACATTGTCAACCCGGCCAATGAACTGATCAAGG
 AGGGCCAAATCCAGAACTGTCAAGCAAGAACGGCACCCCCAGGACCCACCTTCTCTGTTCAACAG
 CATGATCCTTTACTGTGTGCCAAAGCTGCGGCTCATGGGCCAGAAGTTCAGCGTCCGGGAGAAGATGGAC
 ATCTCAGGCCTCCAGGTGCAAGATATCGTCAAGCCAAACACAGCACATACATTATCATAACAGGAAGAA
 AAAGGTCCTGGAGCTGCAGACGCGACAGAGGAAGAGAAGAAAGAAATGGATTGAGATCATCCAGGCCAC
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 CCCAGCCTCTCTCAGACATGCCTATCACGAGCACCAGCCCTGTGGAGCCTGTGGTGACCACCGAAGGCA
 GTTCGGGTGCAGCAGGGCTCGAGCCAGAAAATATCCTCTAAGACCAGACGTGACAAGGAGAAGCAGAG
 CTGTAAGAGCTGTGGTGAGACCTTCAACTCCATCACCAAGAGGAGGCATCACTGCAAGCTGTGTGGGGCG
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 TCCTGACACAGCCAGTGGCCCTGAGAGCACAGAGAAGACACCCACTGCAGACCCCCAGCCAGCCCTGCT
 CTGGCGCCCCCTGCGGCTGTGAGAGAGCGGTGAGACCTGGAGCGAGGTGTGGGCCCCATCCCCATGTCA
 GATCCCCAGGTGCTGCACCTGCAGGGAGGCAGCCAGGACGGCCGGCTGCCCGCACCATCCCTCTCCCCA
 GCTGCAAAGTGTGTGCGGACCTGAGGAGAGGCTGGACTCGGGGCATGTGTGGAAGTGCAGTGGGC
 CAAGCAGTCTGGTACCTGAGCGCCTCTCCGACAGCTGCAGCAGCAGTGGCTGGAAACCTAAGCACT
 GCTGCCCATGGGACACGGCCAGGACAGCCCGGGGCCCTGCAGCTTCAAGTCCCTATGGGCGCAGCTG
 CTCCG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212594 representing NM_033086
 Red=Cloning site Green=Tags(s)

MESGRGSSTPPGPIAALGMPDTGPGSSSLGKLQALVGPRAHCGDPVSLAAAGDGSPIGPTGELSGSLK
 IPNRDSGIDSPSSSVAGENFPCEEGLEAGPSPTVLGAHAEMALDSQVPKVTPQEEADSDVGEEDSENTP
 QKADKDALAQHSGPQKLLHIAQELLHTEETYVKRLHLLDQVFCTRLTDAGIPPEVIMGIFSNISSIHRF
 HGQFLLPELKTRITTEWDTNPRLDILQKLAPFLKMYGEYVKNFDRAVGLVSTWTQRSPLFKDQVHSHIQK
 QEVCGNLTQHHMLEPVQRVPRYELLLKDYLRKLPQDAPDRKDAERSLELIISTAANHSNAAIRKVEKMHK
 LLEVYEQLGGEEDIVNPANELIKEGQIQKLSAKNGTPQDRHLFLFNSMILYCVPKLRMLMGQKFSVREKMD
 ISGLQVQDIVKPNHTAHTFIITGRKRSLELQTRTEEEKKEWIIQIIQATIEKHKQNSETFKAFFGAFSQDED
 PSLSPDMPITSTSPVEPVVTTTEGSSGAAGLEPRKLSKTRRDKKQSCKSCGETFNSITKRRHHCKLCGA
 VICGKCEFEKAENSRQSRVCRDCFQTQVAPESTEKTPTADPQPSLLCGPLRLESGETWSEVWAAIPMS
 DPQVHLQGGSDGRLPRTIPLPCKLSVPDPEERLDSGHVWKLQWAKQSWYLSASSAELQQWLETLST
 AAHGDTAQDSPGALQLQVPMGAAAP

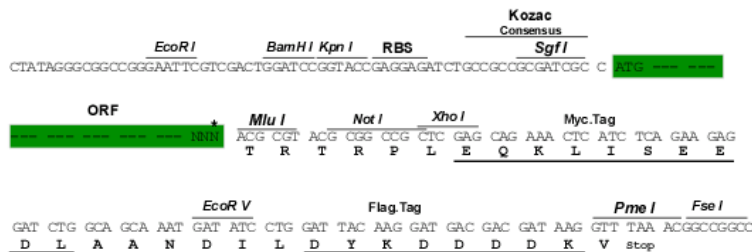
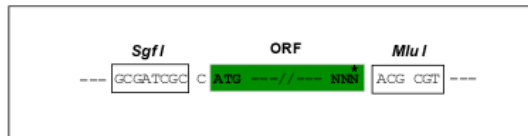
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8101_g07.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_033086

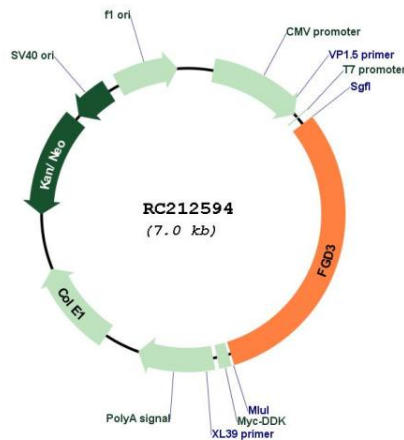
ORF Size: 2175 bp

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.

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| 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_033086.2 , NP_149077.2 |
| RefSeq Size: | 3370 bp |
| RefSeq ORF: | 2178 bp |
| Locus ID: | 89846 |
| UniProt ID: | Q5JSP0 |
| Cytogenetics: | 9q22.31 |
| Protein Pathways: | Regulation of actin cytoskeleton |
| MW: | 79.4 kDa |
| Gene Summary: | Promotes the formation of filopodia. May activate CDC42, a member of the Ras-like family of Rho- and Rac proteins, by exchanging bound GDP for free GTP. Plays a role in regulating the actin cytoskeleton and cell shape (By similarity).[UniProtKB/Swiss-Prot Function] |

Product images:



Circular map for RC212594