

Product datasheet for **RG216954**

FAM83D (NM_030919) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	FAM83D
Synonyms:	C20orf129; CHICA; dJ616B8.3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG216954 representing NM_030919
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCGGGCGCTGTTTGATTCAAAGGTTGCCTATAAAGCGGGAGCTGCACGCCGGTTTTTGTCCGAGGCG
TGTCGAGTCCGAGCGCCGCCATGGCTCTGCTGTCCGAGGGCCTGGACGAGGTGCCCGCCGCTGCCTGTC
GCCGTGCGGGCCGCCAACCCGACCGAGCTGTTACGCGAGTACGGCGCCTGGCTCTGGAGGAGCTGGTG
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CTCGCGCGGAGAGTGATTGCAGTGGTTCATGAGCGTGTTCACAGACATGCACATCTTCAGAGACATGCAA
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TCCCAAGTACCTGGGCACCCCCACCTGGAAGTGTACTTGAGTGACTCACTTAGAAACTTGAACAAAGAG
CGGCAATTCCACTTCGCTGGTATCAGGTCCCGGCTCAACCACATGCTGGCTATGCTGTCAAGGAGAACAC
TCTTACTGAAAACCACTTGGCTCATCTTGGCAATTTACGACAGAGTAATTTGCTTGCTGTTAGAGA
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AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

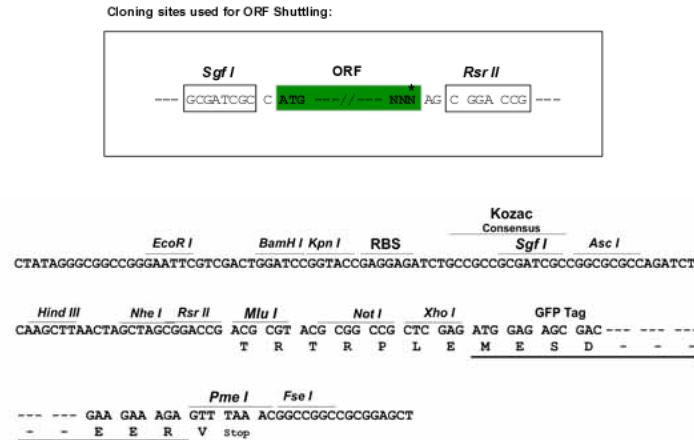
Protein Sequence: >RG216954 representing NM_030919
Red=Cloning site Green=Tags(s)

MARACL IQRLP IKRDC TPV FVRGL SSPSA MALL SEGL DEVPA ACL SPCGPPNP TEL FSESRR LAEE LV
AGGPEAFAAFLRRERLARFLNPDEVHAILRAAERPGEEGAAAAAAEDSFGSSHDCSSGYTFPEQSDLEP
PLLELGWPAFYQ GAYRGATRVETHFQPRGAGEGGPYGCKDALRQQLRSAREVIAVMDVFTDIDIFRDLQ
EICRKQGVAVYI LLDQALLSQFLDMCMDLKVHPEQEKLM TVRTITGNIYYARSGTKIIGKVHEKFTLIDG
IRVATGSYSFTWTDGKLNSSNLVILSGQVVEHFDEFRILYAQSKPI SPKLLSHFQSSNKF DHLTNRKPQ
SKELTLGNLLRMRLARL SSTPRKADLP EMPAEGAERKPHDCESSTVSEEDYFSSHRDELQSRKAIDAA
TQTEPGEEMPLSVSEVGTQTSITTACAGSTQAVITRIASSQTITWRSSTTTQDMDENILFPRGTQSTE
GPSVKMSVSRSLLSSSSVSSQSGASVAGTSPIASIRTTDFHNP GPYKYLGTPHLELYLSDSLRNLNKE
ROHFHAGTIRSLRNLHMLSRRTLFTENHLGLHSGNF SRVNLAVRDVALYPSYO

SGP^{TR}RRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_030919

ORF Size: 1845 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:

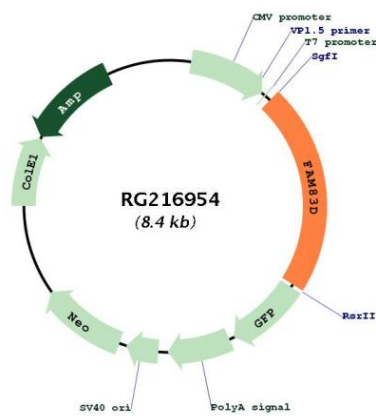
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_030919.2](#), [NP_112181.3](#)

RefSeq Size:	2445 bp
RefSeq ORF:	1758 bp
Locus ID:	81610
UniProt ID:	Q9H4H8
Cytogenetics:	20q11.23
Protein Families:	Druggable Genome
Gene Summary:	Probable proto-oncogene that regulates cell proliferation, growth, migration and epithelial to mesenchymal transition. Through the degradation of FBXW7, may act indirectly on the expression and downstream signaling of MTOR, JUN and MYC (PubMed:24344117). May play also a role in cell proliferation through activation of the ERK1/ERK2 signaling cascade (PubMed:25646692). May also be important for proper chromosome congression and alignment during mitosis through its interaction with KIF22.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG216954