

Product datasheet for **RG208772**

FRG1 (NM_004477) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FRG1 (NM_004477) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FRG1
Synonyms:	FRG1A; FSG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208772 representing NM_004477 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGAGTACTCCTACGTGAAGTCTACCAAGCTCGTGCTCAAGGGAACCAAGACGAAGAGTAAGAAGA
AAAAGAGCAAAGATAAGAAAAGAAAAGAGAAGAAGATGAAGAAACCCAGCTTGATATTGTTGGAATCTG
GTGGACAGTAACAACTTTGGTGAATTTACGGAACCATAGCCATTGAAATGGATAAGGGAACCTATATA
CATGCACTCGACAATGGTCTTTTACCCTGGGAGCTCCACACAAAGAAGTTGATGAGGGCCCTAGTCCTC
CAGAGCAGTTTACGGCTGTCAAATTATCTGATTCCAGAATCGCCCTGAAGTCTGGCTATGAAAAATATCT
TGGTATAAATTCAGATGGACTTGTTGTTGGCGTTCAGATGCAATTGGACCAAGAGAACAATGGGAACCA
GTCTTTCAAAATGGGAAAATGGCTTTGTTGGCCTCAAATAGCTGCTTTATTAGATGCAATGAAGCAGGGG
ACATAGAAGCAAAAAGTAAAACAGCAGGAGAAGAAGAAATGATCAAGATTAGATCCTGTGCTGAAAGAGA
AACCAAGAAAAAGATGACATTCAGAAGAAGCAAAAGGAAATGTAAAACAATGTGAAATCAATTATGTA
AAGAAATTTAGAGCTTCCAAGACCACAACTTAAAATAAGTAAAGAAGACAGTAAAATCTTAAAAAGG
CTCGAAAGATGGATTTTGCATGAGACGCTTCTGGACAGGAGAGCCAAATTGAAAGCCGACAGATACTG
CAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG208772 representing NM_004477
 Red=Cloning site Green=Tags(s)

MAEYSYVKSTKLVLKGTKTKSKKKKSKDKKRKREDEETQLDIVGIWWTVNFGEISGTIAIEMDKGTI
 HALDNGLFTLGAPHKEVDEGSPPEQFTAVKLSDSRIALKSGYGKYLGINSDGLVGRSDAIGPREQWEP
 VFQNGKMALLASNSCFIRCNEAGDIEAKSKTAGEEEMIKIRSCAERETKKKDDIPEEDKGNVKQCEINYV
 KKFQSFQDHKLKISKEDSKILKKARKDGF LHETLLDRRAK LKADRYCK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004477

ORF Size: 774 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_004477.3](#)

RefSeq Size: 1053 bp

RefSeq ORF: 777 bp

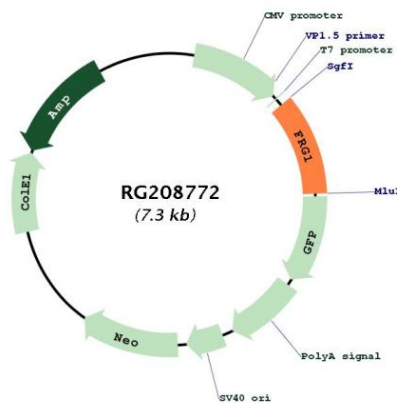
Locus ID: 2483

UniProt ID: [Q14331](#)

Cytogenetics: 4q35.2

Gene Summary: This gene maps to a location 100 kb centromeric of the repeat units on chromosome 4q35 which are deleted in facioscapulohumeral muscular dystrophy (FSHD). It is evolutionarily conserved and has related sequences on multiple human chromosomes but DNA sequence analysis did not reveal any homology to known genes. In vivo studies demonstrate the encoded protein is localized to the nucleolus. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG208772