

Product datasheet for **RG200956**

EFHD1 (NM_025202) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EFHD1 (NM_025202) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EFHD1
Synonyms:	MST133; MSTP133; PP3051; SWS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200956 representing NM_025202 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGTGAGGAGCTGGCGTGCAAGCTGGAGCGCCGGCTGCGGCGGAGGAGGCCGAGGAGAGTGGCC
CCCAGCTGGTCCCCTCGGCGCCCCAGCCCCGAGCCCAAGCCCGAGCCCGAGCCCTCCGCCCGTGC
CACGGCCAGCGCCGACGCGGAGCTGAGCGCCAGCTGAGCCGGCGGTGGACATCAACGAGGGCGTGGC
CGGCCCGGCGCTGCAGGCTTCAACCCCTACACGGAGTCCCGGAGTTCAGCCCGCCCTCATCAAGG
ACCTGGAGAGCATGTTCAAAGTGTATGACGCTGGGCGGGATGGCTTCATCGACCTGATGGAGCTGAAGCT
GATGATGGAGAAGCTGGGGCCCCCAGACCCACCTGGGCTGAAGAGCATGATCAAGGAGTGGATGAG
GACTTCGATGGCAAGCTCAGCTTCCGGGAGTTCCTGCTCATTTCACAAGGCCGCGGCAGGGGAGCTGC
AGGAGGACAGTGGGCTGATGGCGCTGGCAAAGCTTTCTGAGATCGATGTGGCCCTGGAGGGTGTCAAAGG
TGCCAAGAAGTCTTTGAAGCCAAGGTCCAAGCCTTGTCATCGGCCAGTAAGTTTGAAGCAGAGTTGAAA
GCTGAGCAAGATGAGCGGAAGCGGGAGGAGGAGGAGAGGGCGCTCCGCCAGGCAGCTTCCAGAACTCA
AGGCCAACTTCAATACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200956 representing NM_025202
Red=Cloning site Green=Tags(s)

MASEELACKLERRLRREEAEESGPQLAPLGAPAPEPKPEPEPPARAPTASADAELSAQLSRRLDINEGAA
 RPRRCRVFNPHYTEFPEFSRRLIKDLESMFKLYDAGRDFIDLMELKLMMEKLGAPQTHLGLKSMIKEYDE
 DFDGKLSFRELLIFHKAAGELQEDSGLMALAKLSEIDVALEGVKGNFFFEAKVQALSSASKFEALK
 AEQDERKREEEERRLRQAAFQKLKANFNT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025202

ORF Size: 717 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_025202.4](#)

RefSeq Size: 1889 bp

RefSeq ORF: 720 bp

Locus ID: 80303

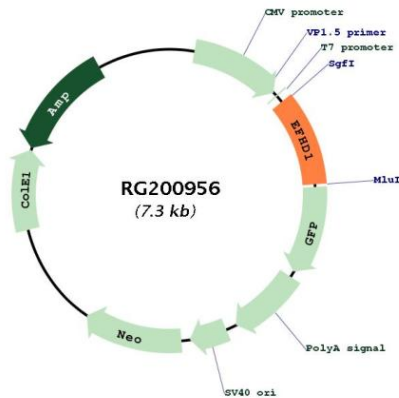
UniProt ID: [Q9BUP0](#)

Cytogenetics: 2q37.1

Domains: EFh

Gene Summary: This gene encodes a member of the EF-hand super family of calcium binding proteins, which are involved in a variety of cellular processes including mitosis, synaptic transmission, and cytoskeletal rearrangement. The protein encoded by this gene is composed of an N-terminal disordered region, proline-rich elements, two EF-hands, and a C-terminal coiled-coil domain. This protein has been shown to associate with the mitochondrial inner membrane, and in HeLa cells, acts as a novel mitochondrial calcium ion sensor for mitochondrial flash activation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RG200956