

Product datasheet for **RG208462**

EFHA2 (MICU3) (NM_181723) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EFHA2 (MICU3) (NM_181723) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EFHA2
Synonyms:	EFHA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208462 representing NM_181723
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCGCTGCGAAGGCTCTTGTCGGCCACCCCGGTGTCTCCTCCACTCTGCGCTACCAGCCCC
 TCCTTGGGCGTGGGGGGCCCTGCGGTGACCACCTGGGCTTCTGCGCGCCCTTCTCCTCCGAGAG
 GGATGAGGAGAGGGCTGTGGCGGAGCGGCATGGAGGCGCGCGCGCTGGGGGAGCTGAGCGTGGCG
 GCGGCGCGCGGGGGGCTGGTCGCTGGTATGCTACCAGCTGTACGGGGACCCAGGGCCGGCTCGC
 CGGCGACCGGGGACCCTCAAAGAGCGCGGCCACGGAGCCGAGGACCCGCCCGCGCGGGGGATGCT
 GCCCATCCAGTGGCGGCTGCCAAGGAGACGGTTGCTATTGGCAGAACAGACATTGAAGACTTAGACCTT
 TATGCCACATCTCGGGAGAGCGATTCGTTTATTTGCTTCTATAGAATGTGAAGGCAGTTATTCATGA
 CTCGATGATTTTATTTGGCTGTTACAACAGATGAGCCCAAAGTTGCCAAAACTTGGAAGTCACTTTC
 CAAACAGGAATTAATCAAATGCTCGCAGAAACACCACAGTTTGGAAAGGCTCATCGAAGCTATTTGCA
 AATCTTAAAGAAAAGGTGTGATTTCTTACACAGAATATCTTTTTCTTTTATGTATTTAAACAAAGCCAC
 ATGCAGGGTTCAGAATAGCTTCAACATGTTTGACACTGATGGCAATGAGATGGTGGATAAAAAAGGTT
 TTTGGTGCCTCAAGAGATATTCAGGAAAAAATGAAAAGAGAGAAATTAAGGAGATGAAGAAAAGCGT
 GCAATGCTGCGTCTCAACTTTATGGATACCATTCCTACTAATAGTGTACTTAAAACAGATGCTGAGG
 AACTTGTCTCCAGAAGCTATTGGGATACACTGAGACGTAACACAAGCCAAGCACTGTTTTAGACCTCGC
 AGAGCGTGTGATGACATCAAGTTTAGTAACAGATACTACACTTCTGTACACTTTTTTGGAAAGAAA
 GGGAAAAGCTGAGCTCAACTTTGAAGATTTTATAGATTCATGGATAATCTCCAAACAGAAGTTCTAGAAA
 TAGAATTCCTTCTACTCAAATGGAATGAATACCATCAGTGAAGAAGATTTTGTCTCATATCTTTTACC
 ATATACAAATGTGAAAATACATCAGTATTTTTAGAAAAATGTGCGTTACAGTATACCTGAAGAAAAGGCG
 ATCACATTTGATGAATCAGGTCATTTTTCCAGTTTTTAAACAACCTAGAAGACTTTGCAATAGCCCTGA
 ATATGTATAACTTTGCAAGTCGTTCTATAGGGCAAGATGAATTTAAACGTGCCGTCTATGTAGCTACTGG
 ACTCAAATTTTACCACATTTAGTGAACACTGTCTTCAAGATTTTGTGTTGACAAAGATGATCAATTA
 AGTTATAAAGAATTTATTGGAATATGAAAACAGACTCCATAGAGGATTCGGGGTTATAAAACAGTCC
 AGAAGTACCCACTTTCAAATCTGCCTGAAGAAAGAAGTTCACAGCAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208462 representing NM_181723
 Red=Cloning site Green=Tags(s)

MAALRRLWPPPRVSPPLCAHQPLLGPWGRPAVTTLGLPGRPFSSREDEERAVAEAAWRRRRRWGELSV
 AAAGGLVGLVQYLYGDPFRAGSPATGRPSKSAATEPEDPPRGRGMLPIPVAANKETVAIGRTDIEDLDL
 YATSRERRFRLFASIECEGQLFMTFYDFILAVTTDEPKVAKTWKSLSKQELNQMLAETPPVWKGSSKLF
 NLKEKGVISYTEYLFLLCILTKPHAGFRIAFNMFDTDGNEMVDKKEFLVLQEIFRKKNEKREIKGDEEK
 AMLRLQLYGYHSPNTSVLKTDAEELVSRSYWDLRRNTSQUALFSDLAERADDITSLVDTTLLVHFFGK
 GKAELNFDYRFMDNLQTEVLEIEFLSYNGMNTISEEDFAHILLRYTNVENTSVFLENVRSIPEEK
 ITFDEFRSFFQLNLEDFAIALNMYNFASRSIGQDEFKRAVYVATGLKFSPLVNTVFKIFDVDDKDDQL
 SYKEFIGIMKDRLHRGFRGYKTVQKYPTFKSCLKKELHSR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_181723

ORF Size: 1590 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_181723.3](#)

RefSeq Size: 4000 bp

RefSeq ORF: 1593 bp

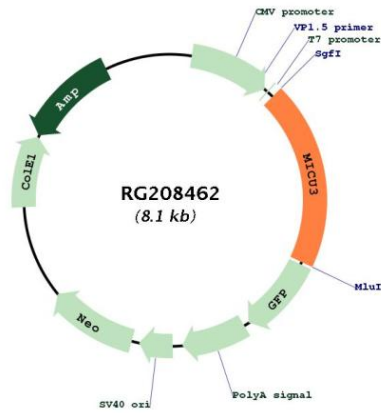
Locus ID: 286097

UniProt ID: [Q86XE3](#)

Cytogenetics: 8p22

Gene Summary: May play a role in mitochondrial calcium uptake.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG208462