

Product datasheet for **RG205830**

EFHC1 (NM_018100) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EFHC1 (NM_018100) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EFHC1
Synonyms:	dj304B14.2; EJM1; POC9; RIB72
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG205830 representing NM_018100
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGTCCAATCCCGTGCATGGCTTGCCTTTCTCCGGGCACGTCCTTTAAGGACTCTACGAAAACAG
 CCTTCCACAGAAGTCAGACGCTGAGCTACAGGAACGGCTATGCAATTGTTGACGCTCCAACAGTTGGGAT
 AGGCGGAGACCGCTCCAGTTCAACCAGCTGTCCAGGCTGAGCTGGATGAGTTGGCCAGTAAGGCACCA
 GTCTTAACTTATGGCCAACCTAAACAAGCCCCACCTGCGGATTTTATTCTGCGCATGTGCCTTTGACA
 AAAAGGTACTGAAATTTGATGCCTATTTCCAAGAAGATGTTCTATGTCAACTGAGGAACAGTATAGGAT
 CCGTCAGGTGAACATTTACTATTATCTAGAAGATGACAGCATGTCTGTATAGAGCTGTTGTAGAAAAT
 TCTGGAATCCTTCAAGGCAAGTTAATAAACGCCAGCGGCTAGCCAAGAATGACCGGGGTGACCATTACC
 ATTGAAAAGACCTAAATCGAGGAATAAACATCACAAATTTATGGCAAACTTTCCGCGTTGTTGACTGTGA
 CCAATTCACACAGGTATTTTAGAAAGCCAAGGAATTGAGTTAAATCCACCAGAGAAGATGGCTCTTGAT
 CCTTACACTGAACTCCGAAAACAGCCTCTTCGTAAATATGTACCCCATCAGACTTTGATCAACTCAAGC
 AATTTCTCACCTTTGACAAACAGGTCTTCGATTCTATGCAATCTGGGATGATACAGACAGCATGTATGG
 TGAATGTCGGACCTACATCATTCACTATCTTATGGATGATACGGTGGAAATTCGAGAGGTCCACGAA
 CGGAATGATGGGATAGATCCTTTCCCACTCCTAATGAACGCCAGCGTGTGCCAAAGTTTTGGTGGAAA
 ATGCAAGAAGTCTCCCTCAGTGTGTGCTAGAAATCTCTGACCAAGAAGTGTGGAATGGTATACTGCTAA
 AGACTTCATTGTTGGGAAGTCACTCACTATCCTGGGAGAACTTTCTTCATTTATGATTGTGATCCATTT
 ACTCGACGGTATTACAAAGAGAAGTTTGAATCACTGATTTACCACGTATTGATGTGAGCAAGCGGGAAC
 CACCTCCAGTAAACAGGAGTTGCCTCCTATAACGGTTTTGGACTAGTGAAGATTCTGCTCAGAATTG
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 TAGCTACCGACATGATCAGTATCTTTGAGCCTCCTGTTGCAATTCTGGTATCATTGGGGCAAGTACCT
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 TTCATTGGTGCTGTGATTGAAGTGTGTTGGTCACCGGTTTCATCCTTGATACAGACGAGTATGTTTTGA
 AATACATGGAGAGCAACGCTGCCAGTATTCACCAAGCACTCGCGTCAATTCAGAACCATGTCCGAAA
 GCGAGAAGCGCTGCTCCAGAAGCAGAAAGCAAGCAAACTGAAAAGGATCCAGGCGTGCAGGAATTGGAA
 GCATTAATAGACACAATTCAGAAGCAACTGAAAGATCACTCATGCAAGACAACATTCGTGAGGCATTTTC
 AAATTTATGACAAGGAAGCTTCAGGATATGTGGACAGAGACATGTTCTTTAAATCTGTGAATCGCTTAA
 CGTCCCAGTGGATGACTCCTTGTTAAGGAGTTACTCAGGATGTGCTCTCATGGAGAAGGCAAAATTAAC
 TACTATACTTTGTTCTGCTTTCTCAAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

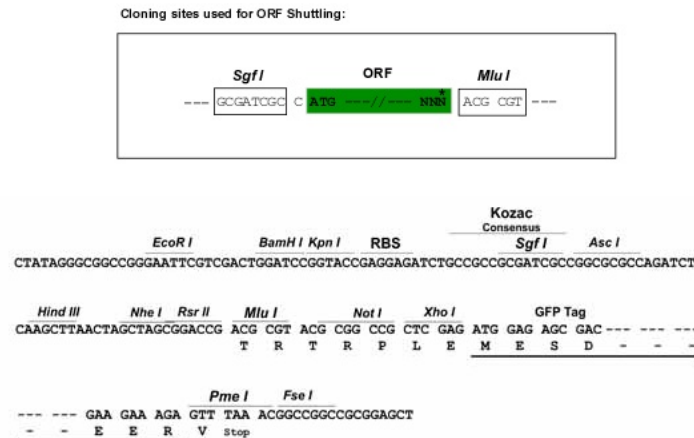
>RG205830 representing NM_018100
 Red=Cloning site Green=Tags(s)

MVSNPVHGLPFLPGTSFKDSTKTAFHRSQTLSYRNGYAIVRPPTVGIGDRLQFNQLSQAELDELASKAP
 VLTYGQPKQAPPADFI PAHVAFDKVLKFDAYFQEDVPMSTEEQYRIRQVNIYYLEDSDMSVIEPVVEN
 SGILQGKLIKRLAKNDRGDHYHWKDLNRGINITIYGKTRFVVDQDQFTQVFLESQGIELNPPEKMALD
 PYTELKQPLRKYYVTPSDFDQLKQFLTFDKQVLRFYAIWDDTDSMYGECRTYIIHYLMDDTVEIREVHE
 RNDGIDPFLLMNRQVRPKVLVENAKNFPQCVLEISDQEVLEWYAKDFIVGKSLTILGRTFFIYDCDPF
 TRRYKKEKFGITDLPRIDVSKREPPVKQELPPYNGFGLVEDSAQNCFALIPKAPKKDVIKMLVNDNKVL
 RYLAVLESPIPEDKDRRFVFSYFLATDMISIFEPPVRNSGIIGGKYLGRTKVVKPYSTVDNPVYGYPSDF
 FIGAVIEVFGRHFIILDTDEYVLKYMESNAQYSPEALASIQNHVRKREAPAPEASKQTEKDPGVQELE
 ALIDTIQQLKDHCKDNIREAFQIYDKEASGYVDRDMFFKICESLNPVDDSLVKELLRMC SHGEGKIN
 YYNFVRAFSN

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018100

ORF Size: 1920 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_018100.1](#), [NP_060570.1](#)

RefSeq Size: 2103 bp

RefSeq ORF: 1923 bp

Locus ID: 114327

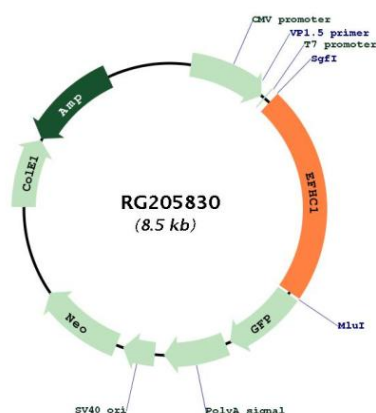
UniProt ID: [Q5JVL4](#)

Cytogenetics: 6p12.2

Domains: EFh, DM10

Gene Summary: This gene encodes an EF-hand-containing calcium binding protein. The encoded protein likely plays a role in calcium homeostasis. Mutations in this gene have been associated with susceptibility to juvenile myoclonic epilepsy and juvenile absence epilepsy. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2010]

Product images:



Circular map for RG205830