

## Product datasheet for **SC328997**

### EFHC1 (NM\_001172420) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EFHC1 (NM_001172420) Human Untagged Clone
Tag:	Tag Free
Symbol:	EFHC1
Synonyms:	dj304B14.2; EJM1; POC9; RIB72
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC328997 representing NM\_001172420.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTTGAAAACAGCCTTCCACAGAAGTCAGACGCTGAGCTACAGGAACGGCTATGCAATTGTTGCAGCT
CCAACAGTTGGGATAGGCGGAGACCGGCTCCAGTTCACCAGCTGTCCCAGGCTGAGCTGGATGAGTTG
GCCAGTAAGGCACCACTTAACTTATGGCCAACCTAAACAAGCCACCTGCGGATTTTATTCTGCG
CATGTGGCCTTTGACAAAAGGTAAGTAAATTTGATGCCTATTTCCAAGAAGATGTTCTATGTCAACT
GAGGAACAGTATAGGATCCGTCAGGTGAACATTTACTATTATCTAGAAGATGACAGCATGTCTGTGATA
GAGCCTGTTGTAGAAAATCTGGAATCCTTCAAGGCAAGTTAATAAAAACGCCAGCGGCTAGCCAAGAAT
GACCGGGTGACCATTACCATTGGAAAGACCTAAATCGAGGAATAAATCACAATTTATGGCAAACT
TTCCGCGTTGTTGACTGTGACCAATTCACACAGGTATTTTTAGAAAGCCAAGGAATTGAGTTAAATCCA
CCAGAGAAGATGGCTCTTGATCCTTACACTGAACTCCGAAAACAGCTCTTCGTAAGTATGTCACCCCA
TCAGACTTTGATCAACTCAAGCAATTTCTCACCTTTGACAAAACAGCTCCTTCGATTCTATGCAATCTGG
GATGATACAGACAGCATGTATGGTGAATGTCGGACCTACATCATTCACTATCTTATGGATGATACG
GTGGAATTCGAGAGGTCCACGAACGGAATGATGGGAGAGATCCTTTCCACTCCTAATGAACCGCCAG
CGTGTGCCAAAGTTTTGGTGGAAAATGCAAGAACTTCCTCAGTGTGTGCTAGAAAATCTTGACCAA
GAAGTGTGGAAATGGTATACTGTAAAGACTTCATTGTTGGGAAGTCACTCACTATCCTTGGGAGAACT
TTCTTCATTTATGATTGTGATCCATTTACTCGACGGTATTACAAAGAGAAGTTTGGAACTCACTGATTTA
CCACGTATTGATGTGAGCAAGCGGGAACCACTCCAGTAAAACAGGAGTTGCCTCCTATAACGGTTTT
GGACTAGTGGAAGATTCTGCTCAGAATTGTTTTGCTCTCATTCCAAAAGCTCCAAAAAGACGTTATT
AAAATGCTGGTGAATGATAACAAGTGCTTCGTTATTTGGCTGTACTGGAATCCCCATCCAGAAAGAC
AAAGACCGCAGATTTGTCTTCTTACTTTCTAGCTACCGACATGATCAGTATCTTTGAGCCTCCTGTT
CGCAATTCGGTATCATTGGGGCAAGTACCTTGGCAGGACTAAAGTTGTTAAACCACTACTACAGTG
GACAACCTGTCTACTATGGCCCAAGTACTTCTCATTGGTGTGATGAAAGTGTGGTCCCGG
TTCATCATCCTTGATACAGACGAGTATGTTTTGAAATACATGGAGAGCAACGCTGCCAGTATTCACCA
GAAGCACTCGCGTCAATTCAGAACCATGTCGAAAGCGGAGAGCGCTGCTCCAGAAGCAGAAAGCAAG
CAAAGTAAAAGGATCCAGGCGTGCAGGAATTGGAAGCATTAAATAGACACAATTCAGAAGCAACTGAAA
GATCACTCATGCAAGACAACATTCGTGAGGCATTTCAAATTTATGACAAGGAAGCTTCAGGATATGTG
GACAGAGACATGTTCTTTAAAATCTGTGAATCGCTTAACGTCCCAGTGGATGACTCCTTGGTTAAGGAG
TTAATCAGGATGTGCTCTCATGGAGAAGGCAAAATTAACACTATAACTTTGTTCTGCTTTCTCAAAC
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001172420

**Insert Size:** 1866 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001172420.1](#)

**RefSeq Size:** 5508 bp

**RefSeq ORF:** 1866 bp

**Locus ID:** 114327

**UniProt ID:** [Q5JVL4](#)

**Cytogenetics:** 6p12.2

**MW:** 72 kDa

**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]  
Transcript Variant: This variant (C) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant A. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.