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# Product datasheet for SC113089

## ACT (FHL5) (NM_020482) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | ACT (FHL5) (NM_020482) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | ACT |
| **Synonyms:** | 1700027G07Rik; ACT; dJ393D12.2; FHL-5 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL4 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |
| **Fully Sequenced ORF:** | >OriGene ORF within SC113089 sequence for NM_020482 edited (data generated by NextGen Sequencing) |

```
ATGACAACTGCTCACTTTTACTGTCAATACTGCACAGCATCACTTCTTGGGAAGAAATAT
GTACTAAAGGATGACAGTCCATACTGTGTTACATGTTATGATCGTGTATTTTCTAACTAT
TGCGAGGAATGCAAAAAACCAATTGAATCTGATTCTAAGGATCTTTGTTACAAAGACCGG
CACTGGCATGAAGGATGCTTCAAGTGCACCAAATGCAATCACTCTTTGGTGGAAAAGCCT
TTTGCTGCCAAGGATGAGCGCCTGCTGTGCACGGAGTGCTATTCTAACGAGTGCTCCTCC
AAGTGCTTCCACTGCAAGAGGACCATCATGCCTGGTTCCCGCAAAATGGAATTTAAGGGA
AACTACTGGCATGAAACCTGTTTTGTGTGTGAGAATTGCCGACAACCTATAGGGACAAAG
CCTTTGATCTCCAAAGAGAGTGGCAATTATTGTGTGCCATGTTTTGAGAAGGAGTTTGCT
CACTACTGCAACTTTTGTAAGAAGGTGATAACTTCAGGTGGGATAACATTTTGTGACCAG
CTATGGCATAAAGAGTGTTTTCTGTGTAGTGGCTGTAGGAAAGATCTCTGTGAAGAACAG
TTCATGTCCAGAGACGACTATCCATTCTGCATGGACTGCTACAACCATCTTTATGCCAAC
AAGTGTGTAGCCTGTTCCAAACCCATTAGTGGTCTCACAGGTGCCAAGTTTATCTGCTTT
CAAGACAGCCAGTGGCATAGCGAATGCTTTAACTGCGGGAAATGCTCTGTCTCCTTGGTG
GGTAAAGGCTTCCTGACCCAGAACAAGGAAATCTTCTGCCAAAAATGTGGCTCCGGAATG
GACACTGACATCTAG

Clone variation with respect to NM_020482.4
631 g=>a
```



View online »

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_020482 unedited
AGAGCGTTCAGGATTTGTAATACGATTTACTATAGGCGGCCGCGNAATTCGCACCAGCTT
TAAAACAAANATCAAACCAAATGACAACTGCTCACTTTTACTGTCAATACTGCACAGCAT
CACTTCTTGGGAAGAAATATGTACTAAAGGATGACAGTCCATACTGTGTTACATGTTATG
ATCGTGTATTTTCTAACTATTGCGAGGAATGCAAAAAACCAATTGAATCTGATTCTAAGG
ATCTTTGTTACAAAGACCGGCACTGGCATGAAGGATGCTTCAAGTGCACCAAATGCAATC
ACTCTTTGGTGGAAAAGCCTTTTGCTGCCAAGGATGAGCGCCTGCTGTGCACGGAGTGCT
ATTCTAACGAGTGCTCCTCCAAGTGCTTCCACTGCAAGAGGACCATCATGCCTGGTTCCC
GCAAAATGGAATTTAAGGGAAACTACTGGCATGAAACCTGTTTTGTGTGTGAGAATTGCC
GACAACCTATAGGGACAAAGCCTTTGATCTCCAAAGAGAGTGGCAATTATTGTGTGCCAT
GTTTTGAGAAGGAGTTTGCTCACTACTGCAACTTTTGTAAGAAGGTGATAACTTCAGGTG
GGATAACATTTTGTGACCAGCTATGGCATAAAGAGTGTTTTCTGTGTAGTGGCTGTAGGA
AAGATCTCTGTGAAGAACAGTTCATGTCCAGAGACGACTATCCATTCTGCATGGACTGCT
ACAACCATCTNTATGCCAACAAGTGTGTAGCCTGTTCCAAACCCATTAGTGGTCTCACAG
GTGCCAAGTTTATCTGCTTTCAGACAGCCAGTGGCATAGCGAATGCTNTAACTGCGGGNA
ATGCTCTGTCTNCTTGGTGGGTAAAGGCTTGCTGACCCACACCAGACATGCTATGCTTAT
GACTAAATGCTGCTCCGGATG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_020482 unedited
TGTACGCGGCCGCAATCTAGTGTCGAGTTTTTTTTTTTTTTTTTGACTATGTAAAATGT
AAATTTATTCAGTATAAGAGACTTCTAAAAACCAATGTATAAAATTAGCAAAAACTGTAT
CATTATCATAATAAACATCTATCTATAGGTGCATTACAGACTATGTGCTTGATTAAATAT
ATCTAAAACATACTGTAACAACTATTTTCTTTTTTTTTCTTTTTGTTTTGAGAGAGAGTC
TTGCTCTGTCGCCCAAGCTGGAGTGCAGTGGCGCCATCTCGGCTCACTGCAAGCTCCGCG
TCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTATCTGGGACTACAGGCGCCC
GCCACCGTGCCCGGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCGTGTTAGC
CAGGCTGGTCTAGATCTCCTGACCTCGTGATCCGCCCGCCTTGGCCTCCCAAAGTGCTGG
GATTACAGGCGTGAGCCACCGTGCCCGGCTAAACAACCATTTTCTTATTTAAAACACAGA
CAATTAACAATATGCCAAGCAGATTAAAAGTTATTTCTTTCTTAAATTCAAAAATGGTAT
TGCTAACATGAAATGTGTTTTTGGATTGACTTTTCATTTGTGATATTAAATTTGGCAGTT
TTTTTTAACCATTTGAGATTAGAGTTATGCATTCTTCATAATGGCAAGCCCATATTTTAC
TCTAATGAACAATCCTAGGCTTCTTTCTTTTAAGTATAGCCACGATGTAAGCTCTGAAGC
CTGGATTGTACATAACCACATTTTACTTACCAGTGGAGCTATTTGTCCCATTTACACTTT
TTATGCCCAGTAAAATTGAACCTTGGCTTCCTATCTTTTTTTTGAACAGAATACATTTTG
CTTTTTGGCTTCTTATCCCAACTGACAAAAAAAAATTGGACTGGGGACTGCAACCATTTTG
CCAAAAAAGTACT

**Restriction Sites:** NotI-NotI

**ACCN:** NM_020482

**Insert Size:** 9630 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).

**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).

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_020482.3, NP_065228.3 |
| **RefSeq Size:** | 2124 bp |
| **RefSeq ORF:** | 855 bp |
| **Locus ID:** | 9457 |
| **UniProt ID:** | Q5TD97 |
| **Cytogenetics:** | 6q16.1 |
| **Domains:** | LIM |
| **Protein Families:** | Druggable Genome |
| **Gene Summary:** | The protein encoded by this gene is coordinately expressed with activator of cAMP-responsive element modulator (CREM). It is associated with CREM and confers a powerful transcriptional activation function. CREM acts as a transcription factor essential for the differentiation of spermatids into mature spermatozoa. There are multiple polyadenylation sites found in this gene. Polymorphisms in this gene may be associated with susceptibility for migraine headaches. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Apr 2016]<br>Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2, 3 and 4 all encode the same protein. 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. |