

Product datasheet for **SC328466**

ACT (FHL5) (NM_001170807) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACT (FHL5) (NM_001170807) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACT
Synonyms:	1700027G07Rik; ACT; dj393D12.2; FHL-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328466 representing NM_001170807. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGACAACTGCTCACTTTACTGTCAACTGCACAGCATCACTTCTTGGGAAGAAATATGTACTAAAG
GATGACAGTCCATACTGTGTACATGTTATGATCGTGATTTTCTAACTATTGCGAGGAATGCAAAAAA
CCAATTGAATCTGATTCTAAGGATCTTTGTTACAAAGACCGGCACTGGCATGAAGGATGCTTCAAGTGC
ACCAAATGCAATCACTCTTTGGTGGAAAAGCCTTTTGTGCCAAGGATGAGCGCCTGCTGTGCACGGAG
TGCTATTCTAACGAGTGCTCCTCAAGTGCTTCCACTGCAAGAGGACCATCATGCCTGGTCCCGCAAA
ATGGAATTTAAGGAAACTACTGGCATGAAACCTGTTTTGTGTGTGAGAATTGCCGACAACCTATAGGG
ACAAAGCCTTTGATCTCCAAAGAGAGTGGAATTATTGTGTGCCATGTTTGGAGAAGGAGTTTGCTCAC
TACTGCAACTTTTGTAAAGAGTGATAACTTCAGGTGGGATAACATTTTGTGACCAGCTATGGCATAAA
GAGTGTCTTCTGTGTAGTGGCTGTAGGAAAGATCTCTGTGAAGAACAGTTCATGTCCAGAGACGACTAT
CCATTCTGCGTGGACTGCTACAACCATCTTTATGCCAACAAGTGTGTAGCCTGTTCCAAACCCATTAGT
GGTCTCACAGGTGCCAAGTTTATCTGCTTTCAAGACAGCCAGTGGCATAGCGAATGCTTTAACTGCGGG
AAATGCTCTGTCTCCTTGGTGGTAAAGGCTTCTGACCCAGAACAAAGGAAATCTTCTGCCAAAAATGT
GGCTCCGAATGGACACTGACATCTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001170807
Insert Size:	855 bp


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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:	<ol style="list-style-type: none"> 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:	<u>NM_001170807.2</u>
RefSeq Size:	3923 bp
RefSeq ORF:	855 bp
Locus ID:	9457
UniProt ID:	<u>Q5TD97</u>
Cytogenetics:	6q16.1
Protein Families:	Druggable Genome
MW:	32.7 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. 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.</p>