

Product datasheet for **SC122758**

ACTL7A (NM_006687) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	ACTL7A
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_006687 edited
 AGGTCTTGAATCCAGTGGGATTGAGAACTTTCTAAGAGTGGTGC GGCTCTTGACAACATG
 TGGGCTCCACCAGCAGCAATCATGGGGATGGGCCACCAAGAAGTGGCAACCAGGCC
 CCCCTGCAGACACAGGCCCTCCAGACTGCCTCTTTAAGGGATGGCCCGCGAAGCGGGCC
 GTGTGGGTCCGCCATACGAGTTTCAGAGCCACAAGAACCTACTGAATCAAAGGCAGCCAAG
 GAGAGGCCCAAGCAGGAGGTGACCAAGCAGTGGTCTGGACCTGGGCACTGGCTACTGT
 AAATGTGGCTTTGCCGGCTGCCAAGACCCACCCACAAGATCTCAACAACGGTGGGCAAG
 CCCTACATGGAGACCGCAAGACTGGGGATAATCGAAGGAGACATTCTGTGGGCAGGAA
 CTCAACAACACAAACGTTTCATCTCAAGCTGGTTAACCTCTGCGACATGGCATCATCGTG
 GACTGGGATACAGTGCAGGATATCTGGGAATATCTCTCCGACAAGAGATGAAGATCGCC
 CCGGAGGAGCATGCGGTCTTGGTTTCAGACCCGCCACTGAGCCACACCAACAGAGAG
 AAATATGCTGAAATGCTGTTTGAAGCCTTCAACACCCCTGCAATGCACATCGCTACCAG
 TCGCGCTGTCCATGTACTCCTATGGAAGGACCTCCGGCCTGGTGGTGGAGGTGGGCCAT
 GGCGTGTCTACGTGGTCCCCATCTACGAGGTTATCCTTTGCCCAGCATCACCGGAAGG
 CTGGACTACGCGGCTCTGACCTGACAGCCTACCTGCTGGGCTGCTGAACAGTGGGGG
 AACGAATTCACCCAGGACCAGATGGGCATCGTGAGGACATCAAGAAGAAATGCTGCTTT
 GTGGCCCTGGATCCCATTTGAGGAGAAGAAAGTCCCTCTCAGTGAGCATACGATCCGCTAC
 GTGCTGCCGGATGGGAAGGAGATTACGCTGTGCCAGGAACGGTTCTCTGCTCGGAGATG
 TTCTTCAAGCCATCTCTCATCAAGTCCATGCAGCTGGGCCTCCACACCCAAACCGTGTCC
 TGCCTTAACAAGTGTGACATCGCCCTCAACCGGACCTCATGGGAACATCCTGCTCTGC
 GGGGGCAGCAGCATGCTCAGTGGCTTCCCTAACCGTCTGCAGAAGGAGCTAAGCAGCATG
 TGTCCCAATGACACCCGCAGGTAACGTGCTGCCTGAAAGAGACAGTGCCTGTGGACC
 GGTGGTCCATCTGGCCTCACTTCAGGGTTTCCAACCATATGGGTCCACCGCTTTGAG
 TACGAGGAACACGGGCTTTCTTCTCTACAGAAGGTGCTTCTGAACGGCGACGAGGATG
 GACACTGCACTGGCAGTGCCTACCCTCGACAGGGTGAGCGCACTCTACACACAGGGGT
 GGAGCCGGCGCTTATTCCTGTAGCATTAAACACCCCTCATATGCCCCCAAAAAAAAAA
 AAAA



5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006687 unedited <pre> NNNCCC GTTTNGATTTTGTATACGACTCACTATAGGCGGCGCGGATTGCGCCCTTCCACG GCCATGACCATGACCCTCCACCAACATCTGGGATGGCCCTACTGCATCAGATCCAAGG GAACGAGCTGGAGCCCTGAACCGTCCGCAGCTCAAGATCCCCCTGGAGCGGCCCTGGG CGAGGTGTACTTGACAGCAGCAAGCCGCGTGTACAACACCCGAGGGCGCCGCTA CGAGTTCAACGCCGCGCCGATAACTTCGTATAGCATACATTATACGAAGTTATGGATC AGGCCAAATCGCCGAGCTCGAATTCGTGAGAGCGGAGGTCTTGAATCCAGTGGGATTG AGAACTTTCTAAGAGTGGTGC GGCTCTTGACAACATGTGGGCTCCACCAGCAGCAATCAT GGGGGATGGGCCCAACAAGGTGGGCAACCAGGCCCCCTGCAGACACAGGCCCTCCA GACTGCCTCTTTAAGGGATGGCCGCGCAAGCGGGCGGTGTGGGTCCGCATACGAGTTC AGAGCCACAAGAACCTACTGAATCAAAGGCAGCCAAGGAGAGGCCCAAGCAGGAGGTGAC CAAAGCAGTGGTCTGGACCTGGGCACTGGCTACTGTAAATGTGGCTTTGCCGCGCTGCC AAGACCCACCCACAAGATCTCAACAACGGTGGGCAAGCCCTACATGGAGACCGCCAAGAC TGGGGATAATCGCAGGNAGACATTCTGGGGCAGGAACCAACACACAAACGTTTCATCTC AAGCTGGTTAACCTCTCGACATGGCATCATCTGGGACTGGGATACAGTGCAAGATATC TGGGAATATCTCTCCGACAGAGATGAAGATCGCCCCGNAGAGCATGCGGT </pre>
Restriction Sites:	Please inquire
ACCN:	NM_006687
Insert Size:	1509 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).
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:	<u>NM_006687.2</u> , <u>NP_006678.1</u>
RefSeq Size:	1433 bp
RefSeq ORF:	1308 bp
Locus ID:	10881
UniProt ID:	<u>Q9Y615</u>

Cytogenetics: 9q31.3

Gene Summary: The protein encoded by this gene is a member of a family of actin-related proteins (ARPs) which share significant amino acid sequence identity to conventional actins. Both actins and ARPs have an actin fold, which is an ATP-binding cleft, as a common feature. The ARPs are involved in diverse cellular processes, including vesicular transport, spindle orientation, nuclear migration and chromatin remodeling. This gene (ACTL7A), and related gene, ACTL7B, are intronless, and are located approximately 4 kb apart in a head-to-head orientation within the familial dysautonomia candidate region on 9q31. Based on mutational analysis of the ACTL7A gene in patients with this disorder, it was concluded that it is unlikely to be involved in the pathogenesis of dysautonomia. The ACTL7A gene is expressed in a wide variety of adult tissues, however, its exact function is not known. [provided by RefSeq, Jul 2008]