

Product datasheet for **SC319328**

beta Actin (ACTB) (NM_001101) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	beta Actin (ACTB) (NM_001101) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACTB
Synonyms:	BRWS1; PS1TP5BP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001101.2
 ACCGCGTCCGCCCGCGAGCACAGAGCCTCGCCTTTGCCGATCCGCCGCCCGTCCACACC
 CGCCGCCAGCTCACCATGGATGATGATATCGCCGCGCTCGTGTGACAAACGGCTCCGGC
 ATGTGCAAGGCCGGCTTCGCGGGGCGACGATGCCCCCGGGCCGTCTCCCTCCATCGTG
 GGGCGCCCAGGCACCAGGGCGTGATGGTGGGCATGGGTGAGAAGGATTCCTATGTGGGC
 GACGAGGCCAGAGCAAGAGAGGCATCCTCACCTGAAGTACCCCATCGAGCAGGCATGT
 GTCACCAACTGGGACGACATGGAGAAAACTGGCACACACCTTACAATGAGCTGCT
 GTGGCTCCCGAGGAGCACCCCGTGTGCTGACCGAGGCCCCCTGAACCCCAAGGCCAAC
 CGCGAGAAGATGACCCAGATCATGTTTGAGACCTTCAACACCCCAAGCCATGTACGTTGCT
 ATCCAGGCTGTGCTATCCCTGTACGCTCTGGCCGTACCACTGGCATCGTGATGGACTCC
 GGTGACGGGGTACCCACACTGTGCCATCTACGAGGGGTATGCCCTCCCCATGCCATC
 CTGCGTCTGGACCTGGTGGCCGGGACCTGACTGACTACCTCATGAAGATCCTCACCGAG
 CGCGGCTACAGCTTACCACCACGGCCGAGCGGAAATCGTGCCTGACATTAAGGAGAAG
 CTGTGCTACGTCGCCCTGGACTTCGAGCAAGAGATGGCCACGGCTGCTTCCAGCTCCTCC
 CTGGAGAAGAGCTACGAGCTGCCTGACGGCCAGGTCATACCATTGGCAATGAGCGGTTCC
 CGCTGCCCTGAGGCACTTCCAGCCTTCTTCCCTGGGCATGGAGTCTGTGGCATCCAC
 GAAACTACCTTCACTCCATCATGAAGTGTGACGTGGACATCCGCAAAGACCTGTACGCC
 AACACAGTGTCTGTGGCGGCACCACCATGTACCCTGGCATTGCCGACAGGATGCAGAAG
 GAGTACTGCGCTGGCACCAGCAATGAAGATCAAGATCATTGCTCCTCCTGAGCGC
 AAGTACTCCGTGTGGATCGGCGGCTCCATCCTGGCCTCGTGTCCACCTTCCAGCAGATG
 TGGATCAGCAAGCAGGAGTATGACGAGTCCGGCCCTCCATCGTCCACCGCAAATGCTTC
 TAGCGGACTATGACTTAGTTGCGTTACACCCTTCTTGACAAAACCTAACTTGGCAGAG
 AAACAAGATGAGATTGGCATGGCTTTATTTGTTTTTTTTGTTTTTGTGTTTTTTTTTTT
 TTTTTTTGGCTTGACTCAGATTTAAAAACTGGAACGGTGAAGGTGACAGCAGTCGGTT
 GGAGCGAGCATCCCCAAAGTTCACAATGTGGCCGAGGACTTTGATTGCACATTGTTGTT
 TTTTTAATAGTCAATCCAAATATGAGATGCGTTGTTACAGGAAGTCCCTTGCCATCCTAA
 AAGCCACCCCACTTCTCTAAGGAGAATGGCCAGTCTCTCCAAGTCCACACAGGGG
 AGGTGATAGCATTGCTTTCGTGTAATTAATGTAATGCAAAATTTTTTAATCTTCGCCTT
 AATACTTTTTTATTTGTTTTATTTGAATGATGAGCCTTCGTGCCCCCTTCCCCCTT
 TTTTGTCCCCCACTTGAGATGTATGAAGGCTTTTGGTCTCCCTGGGAGTGGGTGGAGGC
 AGCCAGGGCTTACCTGTACTGACTTGTGAGACCAGTTGAATAAAAGTGCACACCTTAAAA
 AAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001101
- Insert Size:** 1128 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:	<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:	NM_001101.2 , NP_001092.1
RefSeq Size:	1793 bp
RefSeq ORF:	1128 bp
Locus ID:	60
UniProt ID:	P60709
Cytogenetics:	7p22.1
Domains:	ACTIN
Protein Families:	ES Cell Differentiation/IPS
Protein Pathways:	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Focal adhesion, Hypertrophic cardiomyopathy (HCM), Leukocyte transendothelial migration, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Tight junction, Vibrio cholerae infection, Viral myocarditis
Gene Summary:	This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, integrity, and intercellular signaling. The encoded protein is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskeletal actins that are ubiquitously expressed. Mutations in this gene cause Baraitser-Winter syndrome 1, which is characterized by intellectual disability with a distinctive facial appearance in human patients. Numerous pseudogenes of this gene have been identified throughout the human genome. [provided by RefSeq, Aug 2017]