

Product datasheet for **SC319514**

Zyxin (ZYG) (NM_001010972) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zyxin (ZYG) (NM_001010972) Human Untagged Clone
Tag:	Tag Free
Symbol:	Zyxin
Synonyms:	ESP-2; HED-2
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_001010972.1
 GTGTCCCTCCCGCCCGGCTGGAGGCTGCTCCGGACCGGGACGCAGAGTCTGCGGACCCG
 GCGCCGAGGCGGCCACCCGAGACGCGGCGGCACGCTCCGGCCTGCGCAGCCCGGCCGG
 CCATGGCGGCCCCCGCCCGTCTCCCGGATCTCCGTTTCGGTCTCGGCTCCGGCTTTTT
 ACGCCCCGAGAAGAAGTTCGGCCCTGTGGTGGCCCCAAAGCCAAAGTGAATCCCTTCC
 GGCCCGGGGACAGCGAGCCTCCCCGGCACCCGGGGCCAGCGCGCACAGATGGGCCGG
 TGGGCGAGATCCCCCGCCCGCCCGGAAGACTTCCCCCTGCCTCCACCTCCCCCTTGCTG
 GGGATGGCGACGATGCAGAGGGTCTCTGGGAGTGCCTTCCCGCCGCCCTCCCCGA
 TCGAGGAATCATTCCCCCTGCGCTCTGGAGGAGGAGATCTTCCCTTCCCCGCGCCTC
 CTCGGAGGAGGAGGGAGGGCCTGAGGCCCCATACCGCCCCACCACAGCCAGGGAGA
 AGGTGAGCAGTATTGATTTGGAGATCGACTCTCTGTCTCACTGCTGGATGACATGACCA
 AGAATGATCCTTTCAAAGCCCGGTGTCATCTGGATATGTGCCCCACCAGTGGCCACTC
 CATTCAAGTCCAAGTCCAGTACCAAGCCTGCAGCCGGGGCACAGCACCCCTGCCTCCT
 GGAAGTCCCTTCCAGCTCCCAGCCTCTGCCCCAGTTCCGGCTCCGGCTCAGAGCCAGA
 CACAGTCCATGTTCCAGCCCAGCCCCAGCCCAAGCCTCAGTCCAACCTCATGTCCAGT
 CCCAGACCAGCCTGTGTCTTTGGCTAACACCCAGCCCCGAGGGCCCCAGCCTCATCTC
 CGGCTCCAGCCCCAAGTTTTCTCCAGTACTCCTAAGTTTACTCCTGTGGCTTCCAAGT
 TCAGTCTGGAGCCCCAGGTGGATCTGGGTCAACCAAAATCAAAAATGGGGCACCCCG
 AAGCTCTTTCTGTGGCAGAGCTCCCCTCAACCTCCCAGCTTACCTATGCCAGCAGA
 GGGAGAAGCCCGAGTGCAGGAGAAGCAGCACCCCGTGGCCCCACCGGCTCAGAACCAA
 ACCAGTGGCCTCCCCTGGGGCCCCAGGGCCCCGACTCTGAAGGAGGTGGAGGAGCTGG
 AGCAGTGACCCAGCAGTAATGCAGGACATGGAGCATCTCAGAGGCAGAATGTGGCTG
 TCAACGAACTCTGCGGCCGATGCCATCAACCCCTGGCCCCGGGCGCAGCCAGCCGTCCGCG
 CTCTAGGGCAGCTGTTCCACATCGCCTGCTTACCTGCCACCAGTGTGCGCAGCAGCTCC
 AGGGCCAGCAGTTCTACAGTCTGGAGGGGGCGCCGTAAGTGCAGGGCTGTTACACTGACA
 CCCTGGAGAAGTGAACACCTGCGGGGAGCCCATCACTGACCGCATGCTGAGGGCCACGG
 GCAAGGCCTATCACCCGCACTGCTTACCTGTGTGGTCTGCGCCCCCCCCCTGGAGGGCA
 CCTCCTTATCGTGGACCAGGCCAACCGGCCCACTGTGTCCCCGACTACCACAAGCAGT
 ACGCCCCGAGGTCTCCGTCTGCTCTGAGCCCATCATGCCTGAGCCTGGCCGAGATGAGA
 CTGTGCGAGTGGTCGCCCTGGACAAGAAGTCCACATGAAGTGTACAAGTGTGAGGACT
 GCGGGAAGCCCCGTGCGATTGAGGCAGATGACAATGGCTGCTTCCCCCTGGACGGTCCAG
 TGCTCTGTGCGAAGTGCCACACTGCTAGAGCCCAGACCTGAGTGAAGGACAGGCCCTTTC
 AGACCGCAGTCCATGCCCATTTGTGGACCACCCCACTGAGACCCTGCCCCCACTCA
 GTTATTGTTTTGATGTCTAGCCCCCTCCATTTCCAACCCCTCCCTAGCATCCCAGGTGCC
 CTGACCCAGGACCAACATGGTCTAGGGATGCAGGATCCCCGCCCTGGGGTCTGGTCCCTC
 GCCCATCTGCAGGGATTGCCACCGTCTTCCAGACACCCCACTGAGGGGGGCACCAGG
 TTTAGTGTCTGCTTTTCACTGCTGCACCCGCGCCCTCGGCCGGCCCCCGAGCAGCCTT
 TGTACTGCTGTCGGAGGGCTGGGAGACCCTCCAGGACATTCCACCCCTCCCCATGCT
 GCCAAGTTGTAGCTATAGCTACAATAAAAAAAAAACCTTGTTTTCCAGAAAAAAAAAAAA
 AAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001010972

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_001010972.1 , NP_001010972.1
RefSeq Size:	2322 bp
RefSeq ORF:	1719 bp
Locus ID:	7791
UniProt ID:	Q15942
Cytogenetics:	7q34
Protein Pathways:	Focal adhesion
Gene Summary:	<p>Focal adhesions are actin-rich structures that enable cells to adhere to the extracellular matrix and at which protein complexes involved in signal transduction assemble. Zyxin is a zinc-binding phosphoprotein that concentrates at focal adhesions and along the actin cytoskeleton. Zyxin has an N-terminal proline-rich domain and three LIM domains in its C-terminal half. The proline-rich domain may interact with SH3 domains of proteins involved in signal transduction pathways while the LIM domains are likely involved in protein-protein binding. Zyxin may function as a messenger in the signal transduction pathway that mediates adhesion-stimulated changes in gene expression and may modulate the cytoskeletal organization of actin bundles. Alternative splicing results in multiple transcript variants that encode the same isoform. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform.</p>