

Product datasheet for **RC200960**

Zyxin (ZYG) (NM_001010972) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zyxin (ZYG) (NM_001010972) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zyxin
Synonyms:	ESP-2; HED-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC200960 representing NM_001010972
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCCCGCCCGTCTCCCGCATCTCCGTTTCGGTCTCGGCTCCGGCTTTTACGCCCCGAGAG
 AGAAGTTCGGCCCTGTGGTGGCCCCAAAGCCAAAGTGAATCCCTTCGGCCCGGGGACAGCGAGCCTCC
 CCCGGCACCCGGGGCCAGCGCGCACAGATGGCCGGGTGGCGAGATTCCCGCCCGCCCGGAAGAC
 TTTCCCTGCCTCCACCTCCCCTTGTGGGATGGCGACGATGCAGAGGGTCTCTGGGAGTGCCTTCC
 CGCCGCCCTCCCGATCGAGGAATCATTTCCCTGCGCCTCTGGAGGAGGAGATCTTCCCTCCCC
 GCCGCTCTCCGGAGGAGGAGGGGCTGAGGCCCATACCGCCCCACCACAGCCAGGGAGAAG
 GTGAGCAGTATTGATTTGGAGATCGACTCTGTCTCTGCTGATGACATGACCAAGAATGATCCTT
 TCAAAGCCGGGTGTCATCTGGATATGTCCCCACCAGTGGCCACTCCATTGATTCAGTCCAGTAC
 CAAGCCTGCAGCCGGGGCACAGCACCCCTGCCTCCTTGAAGTCCCCTCCAGCTCCAGCCTCTGCC
 CAGGTTCCGGCTCCGGCTCAGAGCCAGACAGTTCATGTTCCAGCCAGCCAGCCAAAGCCTCAGG
 TCCAACCTCCATGTCCAGTCCCAGACCCAGCCTGTGCTTTGGCTAACACCCAGCCCGAGGGCCCCAGC
 CTCATCTCCGGCTCCAGCCCCTAAGTTTCTCCAGTACTCCTAAGTTTACTCCTGTGGCTTCAAGTTC
 AGTCTGGAGCCCGAGTGGATCTGGTCAACCAAAATCAAAAATGGGGCACCCCGAAGCTCTTCTG
 CTGGCACAGGCTCCCCTCAACCTCCAGCTTCACTATGCCAGCAGAGGGAGAAGCCCGAGTGCAGGA
 GAAGCAGCACCCGTGCCCCACCGCTCAGAACCAAAACCAGGTGCGCTCCCCTGGGGCCCGAGGGCC
 CTGACTCTGAAGGAGTGGAGGAGCTGGAGCAGCTGACCCAGCAGCTAATGCAGGACATGGAGCATCCTC
 AGAGCCAGAAATGGCTGTCAACGAATCTCGCGCCGATGCCATCAACCCCTGGCCCGCAGCCAGC
 CGTCCCGCTCTAGGGCAGCTGTTCCACATCGCCTGCTTCACTGCCACCAGTGTGCGCAGCAGCTCCAG
 GGCCAGCAGTTCTACAGTCTGGAGGGGGCGCCGACTGCGAGGGCTGTTACACTGACACCCTGGAGAAGT
 GTAACACCTGCGGGGAGCCCATCACTGACCGCATGCTGAGGGCCACGGGCAAGGCCTATCACCCGACTG
 CTTCACTGTGTGGTCTGCGCCCGCCCTGGAGGGCACCTCCTTCACTGAGCCAGGCCAACCGGCC
 CACTGTGTCGCCGACTACCACAAGCAGTACGCCCGAGGTGCTCCGTCTGCTCTGAGCCCATCATGCTG
 AGCCTGGCCGAGATGAGACTGTGCGAGTGGTGGCCCTGGACAAGAACTTCCACATGAAGTGTACAAGT
 TGAGGACTGCGGGAAGCCCTGTCGATTGAGGCAGATGACAATGGCTGCTTCCCCTGGACGGTCCAGTG
 CTCTGTGGAAGTCCACACTGTAGAGCCAGACC

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200960 representing NM_001010972
 Red=Cloning site Green=Tags(s)

MAAPRPSPAISVSVSAPAFYAPQKFKGPVVPKPKVNPFRPGDSEPPAPGAQRAQMGRVGEIPPPPPED
 FPLPPPPLAGDGDDEGALGGAFPPPPPIEESFPAPLEEEIFPSPPPPPEEGGPEAIPPPPQPREK
 VSSIDLEIDSLSSLLDDMTKNDPFKARVSSGYVPPPVATPSSKSSTKPAAGGTAPLPPWKSPSSSQPLP
 QVPAPAQSQTQFHVQPQPKPQVQLHVQSQTQPVSLANTQPRGPPASSPAPAPKFSVTPKFTPVASKF
 SPGAPGSGSQPNQKLGHPEALSAGTGSPPSFTYAQQREKPRVQEKQHPVPPPAQNQNQVRSPPGAPG
 LTLKEVEELEQLTQQLMQDMEHPQRQNVAVNELCGRCHQPLARAQPAVRALGQLFHIACFTCHQCAQQLQ
 GQQFYSLGAPYCEGCTDTLEKNTCGEPIIDRMLRATGKAYHPHCFTCVVCPARPLEGTSFIVDQANRP
 HCVDPYHKQYAPRCSVCSEPIPEPGRDETVRVVALDKNFHMCKYKCEDCGKPLSIEADDNGCFPLDGHV
 LCRKCHTARAQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg3790_f01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001010972

ORF Size: 1716 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

RefSeq: [NM_001010972.2](#)

RefSeq Size: 2322 bp

RefSeq ORF: 1719 bp

Locus ID: 7791

UniProt ID: [Q15942](#)

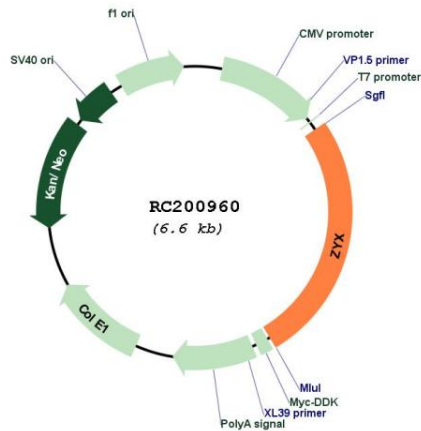
Cytogenetics: 7q34

Protein Pathways: Focal adhesion

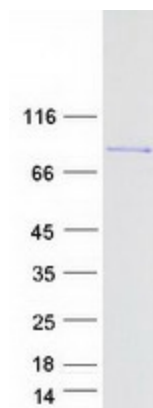
MW: 61.3 kDa

Gene Summary: 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]

Product images:



Circular map for RC200960



Coomassie blue staining of purified ZYX protein (Cat# [TP300960]). The protein was produced from HEK293T cells transfected with ZYX cDNA clone (Cat# RC200960) using MegaTran 2.0 (Cat# [TT210002]).