

## Product datasheet for **SC117991**

### Ezrin (EZR) (NM\_003379) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ezrin (EZR) (NM_003379) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ezrin
Synonyms:	CVIL; CVL; HEL-S-105; VIL2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_003379 edited  
 ATGCCGAAACCAATCAATGTCCGAGTTACCACCATGGATGCAGAGCTGGAGTTTGAATC  
 CAGCCAAATACAACCTGGAAAACAGCTTTTTGATCAGGTGGTAAAGACTATCGGCCTCCGG  
 GAAGTGTGGTACTTTGGCCTCCACTATGTGGATAATAAAGGATTTCTACCTGGCTGAAG  
 CTGGATAAGAAGGTGTCTGCCAGGAGGTCAGGAAGGAGAATCCCCTCCAGTTCAAGTTC  
 CGGGCCAAGTTCTACCCTGAAGATGTGGCTGAGGAGCTCATCCAGGACATCACCCAGAAA  
 CTTTTTCTCCTCCAAGTGAAGGAAGGAATCCTTAGCGATGAGATCTACTGCCCCCTGAG  
 ACTGCCGTGCTCTTGGGGTCTACGCTGTGCAGGCCAAGTTTGGGGACTACAACAAAGAA  
 GTGCACAAGTCTGGGTACCTCAGCTCTGAGCGGCTGATCCCTCAAAGAGTGATGGACCAG  
 CACAAACTTACCAGGGACCAGTGGGAGGACCGGATCCAGGTGTGGCATGCGGAACACCGT  
 GGGATGCTCAAAGATAATGCTATGTTGGAATACCTGAAGATTGCTCAGGACCTGGAAATG  
 TATGGAATCAACTATTTTCGAGATAAAAAACAAGAAAGGAACAGACCTTTGGCTTGGAGTT  
 GATGCCCTTGGACTGAATATTTATGAGAAAGATGATAAGTTAACCCCAAAGATTGGCTTT  
 CCTTGGAGTGAATCAGGAACATCTCTTCAATGACAAAAAGTTTGTATTAAACCCATC  
 GACAAGAAGGCACCTGACTTTGTGTTTTATGCCCCACGCTGAGAATCAACAAGCGGATC  
 CTGCAGCTCTGCATGGGCAACCATGAGTTGTATATGCGCCGAGGAAGCCTGACACCATC  
 GAGGTGCAGCAGATGAAGGCCAGGCCCGGAGGAGAAGCATCAGAAGCAGCTGGAGCGG  
 CAACAGCTGGAACAGAGAAGAAAAGGAGAGAAACCGTGGAGAGAGAGAAAAGAGCAGATG  
 ATGCGCGAGAAGGAGGAGTTGATGCTGCGGCTGCAGGACTATGAGGAGAAGACAAAGAAG  
 GCAGAGAGAGAGCTCTCGGAGCAGATTCAGAGGGCCCTGCAGCTGGAGGAGGAGAGGAAG  
 CGGGCACAGGAGGAGGCCGAGCGCCTAGAGGCTGACCGTATGGCTGCACTGCGGGCTAAG  
 GAGGAGCTGGAGAGACAGGCGGTGGATCAGATAAAGAGCCAGGAGCAGCTGGCTGCGGAG  
 CTTGCAGAACTACTGCCAAGATTGCCCTCCTGGAAGAGGCGCGGAGGCGCAAGGAGGAT  
 GAAGTTGAAGAGTGGCAGCACAGGGCCAAAGAAGCCAGGATGACCTGGTGAAGACCAAG  
 GAGGAGCTGCACCTGGTATGACAGCACCCCGCCCCACCACCCCGTGTACGAGCCG  
 GTGAGCTACCATGTCCAGGAGAGCTTGCAGGATGAGGGCGCAGAGCCACGGGCTACAGC  
 GCGGAGCTGTCTAGTGAGGGCATCCGGGATGACCGCAATGAGGAGAAGCGCATCACTGAG  
 GCAGAGAAGAACGAGCGTGTGCAGCGGCAGCTGCTGACGCTGAGCAGCGAGCTGTCCAG  
 GCCCGAGATGAGAATAAGAGGACCCACAATGACATCATCCACAACGAGAACATGAGGCAA  
 GGCCGGGACAAGTACAAGACGCTGCGGCAGATCCGGCAGGGCAACACCAAGCAGCGCATC  
 GACGAGTTCGAGGCCCTGTAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_003379 unedited  
 TTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCAGGAGTCTGACTCCAGGTT  
 GGGACAGCGTCTTCGCTGCTGCTGGATAGTCGTGTTTTCGGGGATCGAGGATACTACCA  
 GAAACCGAAAATGCCGAAACCAATCAATGTCCGAGTTACCACCATGGATGCAGAGCTGGA  
 GTTTGCAATCCAGCCAAATACAACCTGAAAACAGCTTTTTGATCAGGTGGTAAAGACTAT  
 CGGCCTCCGGGAAGTGTGGTACTTTGGCCTCCACTATGTGGATAATAAAGGATTTCTAC  
 CTGGCTGAAGCTGGATAAGAAGGTGTCTGCCAGGAGGTCAGGAAGGAGAATCCCCTCCA  
 GTTCAAGTTCCGGGCCAAGTTCTACCCTGAAGATGTGGCTGAGGAGCTCATCCAGGACAT  
 CACCCAGAAACTTTTCTCCTCAAGTGAAGGAAGGAATCCTTAGCGATGAGATCTACTG  
 CCCCCCTGAGACTGCCGTGCTCTGGGGTCTACGCTGTGCAGGCCAAGTTTGGGGACTA  
 CAACAAAGAAGTGCACAAGTCTGGGTACCTCAGCTCTGAGCGGCTGATCCCTCAAAGAGT  
 GATGGACCAGCACAACTTACCAGGGACCAGTGGGAGGACCGGATCCAGGTGTGGCATGC  
 GGAACACCGTGGGATGCTCAAAGATAATGCTATGTTGGAATACCTGAAGATTGCTCANGA  
 CCTGNAATGTATGGAATCAACTATTTTCGAGATAAAAAACAAGAAGGAACAGACCTTTGG  
 CTTGGNAGTNGATGCCCTTGGACTGAATATTTATGAGAAAGATGATAAGNTAACCCNCAA  
 GATTGGCTTTCCTTGGNAGTGAATCANGAACATCTCTTCAATGACAAAAAN

<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_003379 unedited  GCACGCAATCTAGAGTCGAGNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATAGGAAA  TTCTTTTATTCTGTAAAAGGTAACAAATTATACAGAACAAAACCTTCCCTTTTTAAAACT  AATGTTACAAATCTGTATTATCACTTGTATATAAATAGTATATAGCTGATCATTATAAG  GGGTATAAGTACAATGTATTCTAAAACGTAAAGCCAAAAAATAAACTAAAAAATAT  CCAAGGGTCTCCTCCACCACTCAGCTGGGGATCACTGGGCTCTCTGCCACCTGCGTGG  ATTGACGGGAGGAGGAATCACTGTGTGTGCAAAAGTGCTTCAAACCTCAATTTCCAAAAT  AATTTTACCCCTCTAAGCATGTAATATACAAAAGATGGATCCTTCATAAAAAATAAAAA  ATCAATTGGAGCTCATTTCAAATACAAAACAAGTATGGCACAAATGGAAGTCCTGCCACG  TTTCTTTAATGATGCTGACTCTGTATCACACAGGCCAGCATGAAGTTTCTTACTCAA  CTTTACAGGCATTTCCGTAATTCATCAGTCCTGCTCCAGCACAACACAGGAGGTGAT  TCGAGAATAATCGCGAGATTCCAGCCTGCTTGGCACTATTACAACTGGGGAAAACAACC  AGGGCCCTCCCTGGTCCAGCCAAAATGTTTCTGTTGGGTAAGTCTTTCTAAAGGA  ACTGGGATCTGAGGGAGTTCCTACTTGGAGCACTAAAGACAAGCGTGGGCGGGCTGC  ATCGCCCGCTATGACCACCCCTCTGCCCTTGGTCTGCCCTGGCTGTTACAGGGCCTTA  ATCTCTCAATGCCTGTTGGTNGTGCCCTGCCAGATCTTGCGCAAGGTTTGTACTTGTCC  AGGCTGCCTATGTTCCGTTGGGATGAGCATGGGGGCCTTTTTCTTATTGGCCTGGACA  TCTCGTGTCAAGTAANATTGCCGTGACACCTGTCTTTT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003379
<b>Insert Size:</b>	2700 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003379.3</a> , <a href="#">NP_003370.2</a>
<b>RefSeq Size:</b>	3166 bp
<b>RefSeq ORF:</b>	1761 bp
<b>Locus ID:</b>	7430
<b>UniProt ID:</b>	<a href="#">P15311</a>
<b>Cytogenetics:</b>	6q25.3
<b>Domains:</b>	B41, ERM
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Leukocyte transendothelial migration, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton
<b>Gene Summary:</b>	<p>The cytoplasmic peripheral membrane protein encoded by this gene functions as a protein-tyrosine kinase substrate in microvilli. As a member of the ERM protein family, this protein serves as an intermediate between the plasma membrane and the actin cytoskeleton. This protein plays a key role in cell surface structure adhesion, migration and organization, and it has been implicated in various human cancers. A pseudogene located on chromosome 3 has been identified for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.</p>