

Product datasheet for **MG209152**

Ezr (NM_009510) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ezr (NM_009510) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ezr
Synonyms:	AW146364; p81; R75297; Vil2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209152 representing NM_009510
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAAGCCAATCAACGTCCGGTGACCACCATGGATGCCGAGCTGGAGTTTCCATCCAGCCAAACA
 CCACCGGAAGCAGCTCTTTGATCAGGTGGTAAAGACGATTGGCCTCCGGAAGTGGTACTTCGGCCT
 CCAGTATGTAGACAATAAAGATTTCTACCTGGCTGAACTTGATAAAAAGGTCTCCGCACAGGAGGTC
 CGAAAGGAGAACCCTGTCCAGTTTAAATTCGGGCCAAGTTCTACCCGAAGACGTGGCCGAGGAACTCA
 TCCAGGACATCACACAGAAGCTTCTTCTGCAAGTCAAGGACGGGATCCTCAGCGACGAGATCTACTG
 CCCCCAGAGACAGCCGTCTCTGGGCTCCTATGCCGTTACGGCCAAGTTCGGAGATTATAACAAGGAA
 ATGCACAAGTCTGGGTACCTCAGCTCGGAGCGGCTGATCCCCAGAGAGTCATGGACCAACAAGCTCA
 GCAGGGACAGTGGGAGGACCGGATCCAGGTGTGGCACGCGGAACACCGAGGGATGCTCAAGGACAGTGC
 TATGCTAGAATACCTGAAGATTGCCAGGACCTGGAAATGTATGGGATCAACTATTTTCGAGATCAAAAAC
 AAGAAAGGAACAGACCTTTGGCTTGGAGTCGATGCCCTTGGACTTAACATTTATGAGAAAGATGACAAGT
 TGACCCCAAAGATCGGCTTCCCTTGGAGTGAGATCAGGAACATCTCTTTCAACGACAAGAAGTTTGTTCAT
 TAAGCCCATCGACAAGAAGGCACCTGACTTTGTGTTCTACGCCCCGCGCCTGAGAATTAACAAGCGGATC
 CTGCAGCTCTGCATGGGAACCATGAGCTGTACATGCGCCGAGGAAAGCCCGACACCATCGAGGTGCAGC
 AGATGAAGGCCAGGCTCGGGAGGAGAAGCACCAGAAGCAGCTAGAGCGACAGCAGTTGGAACCCGAGAA
 GAAGAGGCGAGAGACGGTGGAGAGAGAAAAGGAGCAGATGCTCCGGGAGAAGGAGGAGCTGATGCTTCGG
 CTGCAGGACTACGAGCAGAAGACCAAGAGGGCGGAGAAAGAGCTCTCCGAGCAGATTGAGAAGGCCCTCC
 AACTGGGAGAAGAGAGGAGGCGAGCCAGGCCAGGAGGCTGAACGCTCTGGAGGCCAGCCGCATGGCCGCCCT
 CGGGGCCAAGGAAGAAGCTCGAGAGACAGGCGCAGGATCAGATAAAGAGCCAGGAGCAGCTGGCTGCAGAG
 CTGGCAGAGTACACGGCCAAGATCGCACTGCTGGAGGAGCGCGAGGCCAAGGAGGACGAGGTAGAAG
 AGTGGCAGCACCGGGCTAAAGAAGCCAGGACGACCTGGTGAAGACCAAAGAGGAGCTGCACCTGGTGTAT
 GACGGCCCCACCGCCCCACCGCCCCAGTGTATGAGCCTGTGAATTACCAGTGCAGGAGGGACTGCAG
 GACGAGGGAGCAGAGCCTATGGGCTACAGTGCCGAGCTCTCCAGTGAGGGCATCCTGGATGACCGCAACG
 AGGAGAAGCGGATCACAGAGGCAGAGAAGAATGAGCGCTGCAGCGCAGCTGCTGACCTGAGCAATGA
 GTTGTCCCAGGCCGGGATGAGAAACAAGAGGCCACAATGACATCATCCACAACGAGAACATGCGGCCAA
 GGCAGGGACAAGTATAAGACGCTGCGGCAAATCAGGCAGGGCAACACCAAGCAACGCATTGACGAGTTCC
 AGGCCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209152 representing NM_009510
 Red=Cloning site Green=Tags(s)

MPKPINVRVTTMDAELEFAIQPNTTGKQLFDQVVKIIGLREVWYFGLQYVDNKGFPWLKLDKKVSAQEV
 RKENPVQFKFRAKFPEDVAEELIQDITQKLFLLQVQKDGILSDEIYCPPETAVLLGSAVQAKFGDYNKE
 MHKSGYLSSERLIPQRVMDQHKLSRDQWEDRIQVWHAHRGMLKDSAMLEYLKIAQDLEMYGINYFEIKN
 KKGTDLWLGVDA LGLNIYEKDDKLPKIGFPWSEIRNISFNDKKFVIKPIDKKAPDFVFYAPRLRINKRI
 LQLCMGNHEL YMRRRKPDTIEVQQMKAQAREEKHQKQLERQOLETEKKRRETVEREKEQMLREKEELMLR
 LQDYEQKTKRAEKELSEQIEKALQLEEEERRRAQEEAERLEADRMAALRAKEELERQAQDQIKSQEQLAAE
 LAEYTAKIALLEEARRRKEDEVEEWQHRAKEAQDDL VKTKEELHLVMTAPPPPPPPVYEPVNYHVQEGLO
 DEGAEPMGYSAELSSGILDDRNEEKRI TEAEKNERVQRQLLTL SNELSQARDENKRTHNDIHNENMRQ
 GRDKYKTLRQIRQNTKQRIDEFEAM

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_009510

ORF Size: 1758 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

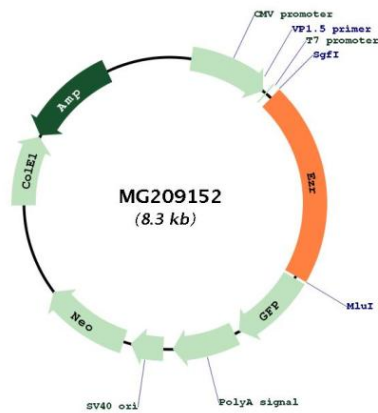
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_009510.2, NP_033536.2](#)
 RefSeq Size: 3070 bp
 RefSeq ORF: 1761 bp
 Locus ID: 22350
 UniProt ID: [P26040](#)
 Cytogenetics: 17 A1

Gene Summary: Probably involved in connections of major cytoskeletal structures to the plasma membrane. In epithelial cells, required for the formation of microvilli and membrane ruffles on the apical pole. Along with PLEKHG6, required for normal macropinocytosis (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209152