

Product datasheet for **SC110130**

EVA1 (MPZL2) (NM_144765) Human Untagged Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | EVA1 (MPZL2) (NM_144765) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | EVA1 |
| Synonyms: | DFNB111; EVA; EVA1 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC110130 sequence for NM_144765 edited (data generated by NextGen Sequencing) ATGTATGGCAAGAGCTCTACTCGTGCGGTGCTTCTTCTCCTTGGCATACAGCTCACAGCT CTTTGGCCTATAGCAGCTGTGGAATTTATACCTCCCGGTGCTGGAGGCTGTTAATGGG ACAGATGCTCGGTAAAAATGCACTTTCTCCAGCTTTGCCCTGTGGGTGATGCTCTAACA GTGACCTGGAATTTTCGTCCTCTAGACGGGGACCTGAGCAGTTTGTATTCTACTACCAC ATAGATCCCTTCCAACCCATGAGTGGGCGGTTAAGGACCGGTGCTTGGGATGGGAAT CCTGAGCGGTACGATGCCTCCATCCTTCTCTGAAACTGCAGTTCGACGACAATGGGACA TACACCTGCCAGGTGAAGAACCACCTGATGTTGATGGGTGATAGGGGAGATCCGGCTC AGCGTCGTGCACACTGTACGCTTCTCTGAGATCCACTTCTGGCTCTGGCATTGGCTCT GCCTGTGCACTGATGATCATAATAGTAATTGTAGTGGTCTCTTCCAGCATTACCGGAAA AAGCGATGGGCCGAAAGAGCTCATAAAGTGGTGGAGATAAAATCAAAGAAGAGGAAAGG CTCAACCAAGAGAAAAAGGTCTCTGTTATTTAGAAAGACACAGACTAA Clone variation with respect to NM_144765.2 |



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_144765 unedited
 GGGTTCGCGATTTGTAATACGACTCACTATAGGGCGGCCCGCAATTCGCACGAGGGAGC
 CCTCGGTCTGCCCCGTCCGGTCTCTGGGGCCAAGGCTGGGTTTCCCTCATGTATGGCAAG
 AGCTCTACTCGTGCCTGCTTCTCTCCTTGGCATAACAGCTCACAGCTCTTTGGCCTATA
 GCAGCTGTGAAATTTATACCTCCCGGTGCTGGAGGCTGTTAATGGGACAGATGCTCGG
 TTAAATGCACCTTCTCCAGCTTTGCCCTGTGGGTGATGCTCTAACAGTGACCTGGAAT
 TTTCGCTCTAGACGGGGACCTGAGCAGTTTGTATTCTACTACCACATAGATCCCTTC
 CAACCCATGAGTGGGCGTTTAAGGACCGGTGTCTTGGGATGGGAATCCTGAGCGGTAC
 GATGCCTCCATCCTTCTCTGAAACTGCAGTTCGACGACAATGGGACATACACCTGCCAG
 GTGAAGAACCACCTGATGTTGATGGGGTATAGGGGAGATCCGGCTCAGCGTCTGCAC
 ACTGTACGCTTCTCTGAGATCCACTTCTGGCTCTGGCCATTGGCTCTGCCTGTGCACTG
 ATGATCATAATAGTAATTGTAGTGGTCTCTCCAGCATTACCGGANAAAGCGATGGGCC
 GAAAGAGCTCATANAGTGGTGGAGATAAAATCAAAGAAGAGGAAAGGCTCAACCAAGAG
 AAAAAGGTCTCTGTTATTTAGAAGACACAGACTAACCATTTTAGATGGTAAGGGTACA
 NNATAGGNTGATTTCTTCTTTCAGCTTCTGACATGTCCAGCCCATNNCTCTATGAGACTC
 CCAGATCATCACTTTATGGCTGNNTAGTGTCCCATATGAAAATAGAGAGCTGGGTGAG
 GAGACCAAAGTCTCTATAGTCTATG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_144765 unedited
 AGGCCGAATTTAGNATCGAGTTTTTTTTTTTTTTTTTTTGGATTTAAAAAAGATTTATTTA
 CTTGTTGAATATTTATTAGTAGTAGTAATAAATAAACC CGAAGCCACAAATAACC
 TTAGGATTCTCTCAGCTTAATGGCAGTAGAGTCCAGCTTCTTAATCTTTGCACAAAAT
 AACTCAAGGAGGAGCTATCCATAAGACTAATAGAAGACTTTTGTCTCCCTGACCCAGCT
 CCTCTAATTTTCATATGGGAAACACCTAACAGCCATAAAGTGATGATCTGGGAGTCCCTCAT
 TAGAGATGGGCTGGACATGTCAGAAAGCTGAAGAAAGAAATCAACCTATTTGTGAACCTT
 ACCATCTAAAATTGTTAGTCTGTGTCTTCTAAATAAACAGAGACCTTTTTCTCTTGGTTG
 AGCCTTTCCTCTCTTTTATTGTTTATCTCCACCACTTTATGAGCTCTTTCGGCCCATCGC
 TTTTCCGGTAATGCTGGAAGAGGACCACTANCATTACTATTATGATCATCAGTGACACAG
 GCAGAGCCAATGGCCAGAGCCCAGGAAGTGGATCTCAGAGAAGCGTACAGTGTGCACGAC
 GCTGAGCCCGGATCTCCCTATCACCCATTACATCAGGTGGGTTCTCACCTGGCANGT
 GTATGTCCTTGTGTCGACTGCACTGGCAGTTTCAGAAGAAGATGGGAGCATCGTACCGCTC
 AGATCCCATCCAAAGAACCCCGTCTTAACCGCCACTCAGGGGNGGAAGGGATCTAGGTG
 GATAAAAAACAACTGCTCAGGCCCTTAAAAGACCAAATCCACGGCCCGGTCAACATCC
 CCCAGGGCAAACCTGAAAAGGGATTTTACCGACCTCTGTCCATAAACCTCCCCCCCGGA
 GGGTTAATTTCCACCTGCTTAGCCAAGAATTGGACCGTTTCAGAGAAAACCCCCACAAT
 AACTCTCCACAGGAAAACCCCTTGCCCAAACAGGCGGCAACAGGCCTTTCGCGCATA
 GGCCCN

Restriction Sites:

NotI-NotI

ACCN:

NM_144765

Insert Size:

1000 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).

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_144765.1](#), [NP_658911.1](#)

RefSeq Size: 1154 bp

RefSeq ORF: 648 bp

Locus ID: 10205

UniProt ID: [O60487](#)

Cytogenetics: 11q23.3

Domains: ig, IGv, IG

Protein Families: Transmembrane

Gene Summary: Thymus development depends on a complex series of interactions between thymocytes and the stromal component of the organ. Epithelial V-like antigen (EVA) is expressed in thymus epithelium and strongly downregulated by thymocyte developmental progression. This gene is expressed in the thymus and in several epithelial structures early in embryogenesis. It is highly homologous to the myelin protein zero and, in thymus-derived epithelial cell lines, is poorly soluble in nonionic detergents, strongly suggesting an association to the cytoskeleton. Its capacity to mediate cell adhesion through a homophilic interaction and its selective regulation by T cell maturation might imply the participation of EVA in the earliest phases of thymus organogenesis. The protein bears a characteristic V-type domain and two potential N-glycosylation sites in the extracellular domain; a putative serine phosphorylation site for casein kinase 2 is also present in the cytoplasmic tail. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) differs in the 3' UTR compared to variant 1 and is the shorter transcript.