

Product datasheet for **SC126799**

EVA1 (MPZL2) (NM_005797) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EVA1 (MPZL2) (NM_005797) Human Untagged Clone
Tag:	Tag Free
Symbol:	EVA1
Synonyms:	DFNB111; EVA; EVA1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC126799 sequence for NM_005797 edited (data generated by NextGen Sequencing)

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ATGTATGGCAAGAGCTCTACTCGTGCGGTGCTTCTTCTCCTTGGCATACAGCTCACAGCT
CTTTGGCCTATAGCAGCTGTGAAATTTATACCTCCCGGGTGCTGGAGGCTGTTAATGGG
ACAGATGCTCGGTAAAAATGCACTTTCTCCAGCTTTGCCCTGTGGGTGATGCTCTAACA
GTGACCTGGAATTTTCGTCCTCTAGACGGGGGACCTGAGCAGTTTGTATTCTACTACCAC
ATAGATCCCTTCCAACCCATGAGTGGGCGGTTTAAGGACCGGGTGTCTTGGGATGGGAAT
CCTGAGCGGTACGATGCCTCCATCCTTCTCTGAAAAGTGCAGTTCGACGACAATGGGACA
TACACCTGCCAGGTGAAGAACCACCTGATGTTGATGGGGTGATAGGGGAGATCCGGCTC
AGCGTCGTGCACACTGTACGCTTCTCTGAGATCCACTTCTGGCTCTGGCCATTGGCTCT
GCCTGTGCACTGATGATCATAATAGTAATTGTAGTGGTCTCTTCCAGCATTACCGGAAA
AAGCGATGGGCCGAAAGAGCTCATAAAGTGGTGGAGATAAAATCAAAGAAGAGGAAAGG
CTCAACCAAGAGAAAAAGGTCTCTGTTATTTAGAAAGACACAGACTAA
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Clone variation with respect to NM_005797.3



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5' Read Nucleotide Sequence: >OriGene 5' read for NM_005797 unedited
 NGTCATAACCCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATA
 TAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGG
 CCGCGAATTCGGCACGAGGGCGGGCTGAGTCACAGGCACAGGTGAGGAACTCAACTCAA
 CTCCTCTCTCTGGGAAAACGCGGTGCTTGTCTCTCCGGAGTGGCCTTGGCAGGGTGTG
 GAGCCCTCGGTCTGCCCCGTCCGGTCTCTGGGGCCAAGGCTGGGTTTCCCTCATGTATGG
 CAAGAGCTCTACTCGTGCGGTCTTCTCTCTTGGCATACAGCTCACAGCTCTTTGGCC
 TATAGCAGCTGTGGAAATTTATACCTCCCGGGTGTGGAGGCTGTTAATGGGACAGATGC
 TCGGTTAAAATGCACTTTCTCCAGCTTTGCCCTGTGGGTGATGCTCTAACAGTGACCTG
 GAATTTTCGTCTCTAGACGGGGACCTGAGCAGTTTGTATTCTACTACCACATAGATCC
 CTTCCAACCCATGAGTGGGCGGTTAAGGACCGGGTGTCTTGGGATGGGAATCCTGAGCG
 GTACGATGCCCTCCATCTTCTCTGGAACTGCAGTTCGACGACAATGGGACATACACCTG
 CCAGGTGAAGAACCACCTGATGTTGATGGGTGATAGGGGAGATCCGGCTCAGCGTCGT
 GCACACTGTACGTTCTCTGAGATCCACTTCTGGCTCTGGCCATTGGCTCTGCCTGTGC
 ACTGATGATCATAATAGTAATTGTNAGTGGTCTCTTCCAGCATTACCGNANAAGCGA
 TGGNCCGAAGAGCTCATAAGTGNTGGAGATANATCAAAGAAGAGGAAGGCTCACCAGA
 GAAAAGGTCTTGTATTTAGAGAACGACTACATTNTAGATGAGCTGAGAGATA

3' Read Nucleotide Sequence: >OriGene 3' read for NM_005797 unedited
 GTCTACTATGNACGGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTATATAAC
 TGATAATTCTTTACTAAAGTTTTTTACATAGTGTAAAGCATAATAAAAAATAA
 ATTACAATACAAAAGTGCTCTTTAGGAAGGAGACTAAACAACAGGCCATATTACCC
 TTGACTATTTAGCCAAGACATAAGCTACAAATTTTCCGGAAAAACTGTCCATACATTT
 TAACTACTTCTTATTATTCTTATGGACCATCATCCAGGACATCTGTTTGAAGAAATATC
 CAGTTATAATATTTCAAAGTTAGAATTGTGAAGAAAAATATAAAATGTGATTAAGG
 ATATATAGCCTTCAGATGTAATTTACAGTTTTAAAATTGCACTTTAAAACCTTTGCTTTT
 TAGACAGTATAAAAGGCAGAATGAGACAGATATGTAATGAATTCAGAAGTGGTTTCAT
 ATGTAATCATACAATTTTTAAAAATAGTATTGGAAAAATATCAAGGTCTATACATTT
 AAATACAGATAATCTGTTTGAATTTCCAGTTTGTAAAAGAAAAACATCTGCAGTCCA
 GTCGATTA AAAACTGAAAAATATCATCTGAAAAGATTGATCTTGAGCCTAAAACCTTGA
 AGCCTTATCCTTGACAAAAGCCTCTGGATTCTAAAGCTGGTACTTTTCTTTAATAGC
 CCACTTATAAAGTTTGGTTTATCTACCAGTATGGGGGAAAAAAGAAAAAGGTGGGTT
 TATTTCCCTTAAAGGAATTTTGGGATTTTTTGGGGCAAACAAAATTTTCTCCCCCAT
 AAACAGGGGATTGTAATTA AAAAAAAAAAAGGAAAAATCTTTCGGTCCCAAAGTTTTTA
 TAAAC

Restriction Sites: NotI-NotI
ACCN: NM_005797
Insert Size: 2750 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](#)

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_005797.2](#), [NP_005788.1](#)

RefSeq Size: 2634 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 (1) represents the longer transcript.