

## Product datasheet for **RG223753**

### EVA1 (MPZL2) (NM\_144765) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EVA1 (MPZL2) (NM_144765) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EVA1
Synonyms:	DFNB111; EVA; EVA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223753 representing NM_144765 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTATGGCAAGAGCTCTACTCGTGCGGTGCTTCTCTCCTTGGCATAACAGCTCACAGCTCTTTGGCCTA  
TAGCAGCTGTGGAAATTTATACCTCCCGGGTGTGGAGGCTGTTAATGGGACAGATGCTCGGTTAAATG  
CACTTTCTCCAGCTTTGCCCTGTGGGTGATGCTAACAGTGACCTGGAATTTTCGTCTCTAGACGGG  
GGACCTGAGCAGTTTGTATTCTACTACCACATAGATCCCTCCAACCCATGAGTGGCGGTTTAAGGACC  
GGGTGTCTTGGGATGGGAATCCTGAGCGGTACGATGCCTCCATCCTTCTCTGGAACTGCAGTTCGACGA  
CAATGGGACATACACCTGCCAGGTGAAGAACCACCTGATGTTGATGGGGTATAGGGGAGATCCGGCTC  
AGCGTCGTGCACACTGTACGCTTCTCTGAGATCCACTTCTGGCTCTGGCCATTGGCTCTGCCTGTGCAC  
TGATGATCATAATAGTAATTGTAGTGGTCTTCCAGCATTACCGAAAAAGCGATGGGCCGAAAGAGC  
TCATAAAGTGGTGGAGATAAAATCAAAGAAGAGGAAAGGCTCAACCAAGAGAAAAAGGTCTCTGTTTAT  
TTAGAAGACACAGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG223753 representing NM\_144765  
Red=Cloning site Green=Tags(s)

MYGKSSTRAVLLLLGIQLTALWPIAAVEIYTSRVLEAVNGTDARLKCTFSSFAPVGDALVTWNFRPLDG  
 GPEQVFVYYHIDPFQPMsGRFKDRVSWDGNPERYDASILLWKLQFDDNGTYTCQVKNPPDVGVI GEIRL  
 SVVHTVRFSEIHFLALAI GSACALMIIIVVVVLFQHYRKKRWAERAHKVVEIKSKEEERLNQEKKVSVY  
 LEDTD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_144765

**ORF Size:** 645 bp

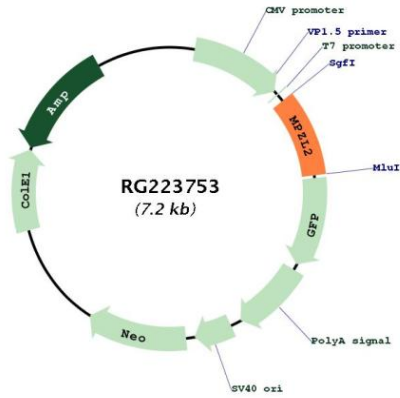
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<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_144765.2</a>
<b>RefSeq Size:</b>	1154 bp
<b>RefSeq ORF:</b>	648 bp
<b>Locus ID:</b>	10205
<b>UniProt ID:</b>	<a href="#">O60487</a>
<b>Cytogenetics:</b>	11q23.3
<b>Domains:</b>	ig, IGv, IG
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RG223753