

Product datasheet for **MG224097**

Eda (NM_010099) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eda (NM_010099) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eda
Synonyms:	Ed1; Eda-A1; Eda-A2; EDA1; HED; Ta; tabby; Tnlg7c; XLHED
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224097 representing NM_010099 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTACCCAGAGGTAGAGCGCAGGGAACCCCTGCCTGCGGCAGCGCCAAGGGAGCGGGCAGCCAGG
GCTGCGGCTGTCGCGGGGCCCTGCTCGGGCGGGCAAGGGAACAGCTGCCGGCTCTTCTGGGTTTCTT
TGGCCTCGCTGGCCCTCCACCTGCTGACGCTGTGCTGCTACCTAGAGTTGCGGTCCGAATTGCGGCGG
GAACGGGAACCGAGTCCCGCTCGGTGGCCCGGTGCTCCTGGCACCTCTGGCACCTAAGCAGCCCTG
GGAGCCTCGACCCGGTGGGTCCCATCACCCGCCACCTGGGGCAGCCGTCCTTTCAACAGCAGCCTTTGGA
ACCGGGAGAAGATCCACTCCCCCTGACTCCAGGACCGGACCAAGATGGCCCTCCTGAATTTCTTCTTT
CCTGATGAAAAGGCATATTCTGAAAGGAAAGTAGGCGTGTTTCGCCGAATAAGAGAAGCAAAAGTGGTG
AAGGAGCAGATGGTCTGTTAAAAACAAGAAAAGGAAAGAAGGAGGAGGACCCACCTGGGCCAACGGCCC
CCCAGGACCTCCAGGACCTCCGGGACCCAGGGACCTCCAGGGATTCCAGGAATTCCTGGGATTCCAGGA
ACAACCTGTTATGGGACCACCTGGCCACCTGGCCCTCCTGGTCTCAAGGACCCCTGGCCTCAAGGAC
CTTCTGGTGTGCTGATAAACTGGAACCTCGGAAAATCAGCCAGCTGTGGTGCATCTGCAGGGCCAAGG
GTCAGCAATTCAAGTCAAAAATGATCTTTCAGGTGGAGTGCTCAATGACTGGTCTCGCATCACTATGAAC
CCTAAGGTGTTTAACTACATCCCGCAGCGGGAGCTGGAGGTACTGGTGGACGGCACCTACTTCATCT
ATAGTCAGGTCTACTACATCAACTTCACTGACTTTGCCAGCTACGAGGTGGTGGATGAGAAGCCCTT
CCTGCACTGACCCCGCAGCATTGAGACAGGGAAGACCAACTACAACACTTGTATACTGCAGGCGTGTGC
CTCCTCAAGGCCAGGAGAAAATCGCCGTGAAGATGGTGCACGCTGACATCTCTATCAATATGAGCAAGC
ACACCACCTTCTCGGGGCCATCAGGCTGGGCGAAGCCCTGCATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224097 representing NM_010099
 Red=Cloning site Green=Tags(s)

MGYPEVERREPLPAAAPRERGSQGCGRGAPARAGEGNSCRLFGLFFGLSLALHLLTLCCYLELRSELRR
 ERGTESRLGGPGAPGTSGTSSPGSLDPVGPITRHLGQPSFQQPLEPGEPLPPDSQDRHQMALLNFFF
 PDEKAYSEESRRVRRNKRKSKSEGADGPVKNKKGKAGPPGPNPPGPPGPPGPPGPPGIPGIPGIPG
 TTVMGPPPPG
 PKVFKLHPRSGELEVLVDGTYFIYSQVYIINFDFASYEVVVDEKPFLLQCTRSIETGKTNYNTCYTAGVC
 LLKARQKIAVKMVHADISINMSKHTTFG AIRLGEAPAS

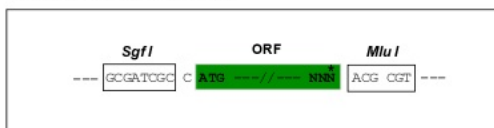
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1721_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



EcoRI	BamHI	KpnI	RBS	Kozac Consensus	SgfI	AscI
CTATAGGCGGCGGGAATTC	GCTCGACTCGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGCCAGATCT					
HindIII	NheI	RsrII	MluI	NotI	XhoI	GFP Tag
CAAGCTTAAGTAGCTAGCGGACCG	ACG CGT	ACG CCG CCG	CTC GAG	ATG GAG AGC GAC	---	---
	T R T	R P L	E M	E S D	-	-
---	GAA GAA AGA GTT TAA	ACGGCGGCCCGGAGCT				
	- - E E R	V stop				

ACCN: NM_010099

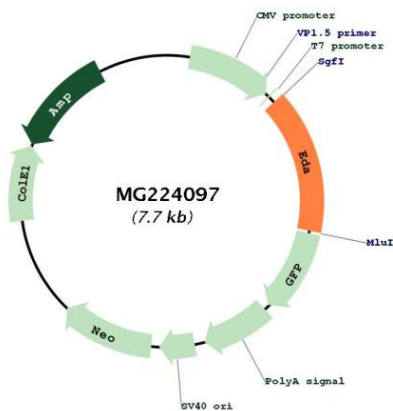
ORF Size: 1167 bp

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:	<ol style="list-style-type: none">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_010099.2 , NP_034229.1
RefSeq Size:	4955 bp
RefSeq ORF:	1176 bp
Locus ID:	13607
UniProt ID:	O54693
Cytogenetics:	X 43.59 cM
Gene Summary:	Cytokine which is involved in epithelial-mesenchymal signaling during morphogenesis of ectodermal organs. Functions as a ligand activating the DEATH-domain containing receptors EDAR and EDA2R. Isoform TAA binds only to the receptor EDAR, while isoform TA-A2 binds exclusively to the receptor EDA2R (By similarity). May also play a role in cell adhesion (PubMed:10534613).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG224097