

Product datasheet for **MG226272**

Efna3 (NM_010108) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Efna3 (NM_010108) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Efna3
Synonyms:	AW494418; EFL-2; Ehk1-L; Epl3; LERK-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226272 representing NM_010108 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGCTCCGCTGCTGCTGCTGCTGCTGCTCGTGCCCGTGCCGCTGCTGCCGCTGCTGGCCAGG
GGCCTGGGGCGCACTGGGAAACCGGCATGCGGTATACTGGAACAGCTCCAATCAGCACCTGCGGCGAGA
GGGCTACACCGTGCAGGTGAACGTGAACGACTATCTGGATATTTACTGTCCGCACTACAACAGCTCAGGG
CCTGGCGGGCGGAGCAGTACGTGCTGTACATGGTGAACCTGAGCGGCTACCGCACCTGCAACGCCA
GCCAAGGCTCCAAGCGCTGGGAATGCAACCGGCAGCACGCTCGCACAGCCCATCAAGTCTCCGAGAA
GTTCCAGCGTTACAGCGCTTCTCGCTGGGCTATGAATCCATGCCGGCCAAGAATACTACTACATCTCC
ACGCCCCACTCACAACTGCACTGGAAGTGTCTGAGGATGAAGGTGTTCTGCTGCTGCGCCTCCACATCGC
ACTCCGGGAGAAAGCCGGTCCCCACTCTCCCCAGTTCACCATGGGCCCCAATGTGAAGATCAACGTGTT
GGAAGACTTTGAGGGAGAGAATCCCCAGGTGCCAAGCTTGAGAAGAGCATCAGTGGGACCGCCCCAAG
CGGAACACCTGCCTCTGGCCGTGGGCATCGCCTTCTTCTCATGACGCTCTTGGCCTCC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226272 representing NM_010108
 Red=Cloning site Green=Tags(s)

MAAAPLLLLLLLVPVPLPLLAQGGALGNRHAVYWNSSNQHLRREGYTVQVNVNDYLDIYCPHYNSSG
 PGGGAEQYVLYMVNLSGYRTCNASQGSKRWECNRQHASHSPIKFSEKQRYSAFSLGYEFHAGQEYYIS
 TPTHNLHWKCLRMKVFVCCASTSHSGEKPVPTLPQFTMGPNVKINVLEDFEGENPQVPKLEKSISGTS
 REHLPLAVGIAFFLMTLLAS

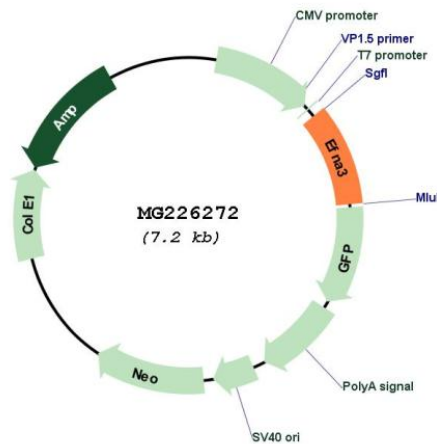
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010108

ORF Size: 690 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).
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_010108.2
RefSeq Size:	1225 bp
RefSeq ORF:	693 bp
Locus ID:	13638
UniProt ID:	O08545
Cytogenetics:	3 39.06 cM
Gene Summary:	Cell surface GPI-bound ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling.[UniProtKB/Swiss-Prot Function]