

Product datasheet for **MG226696**

Eps15 (NM_001159964) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eps15 (NM_001159964) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eps15
Synonyms:	2410112D09Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226696 representing NM_001159964
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTATTTAAAAAGCGATTTCAGGATTAGGAGGATGGATAGCCATACCAGCTGTAGCTGATGTTCTCAGAT
 ACTCTTGCAATTGTTTCTGGTCTTCTAGGAAAAGAACAATGTGGAGCAGGACCTTAAAGAGAAGGAAGA
 CACAGTTAAGCAGAGGACCAGTGAAGTTTCAAGATGAAGTTCAAAGGAGAGTATTAATCTA
 CAAAACTGCAGGCCAGAAGCAGCAGGTGCAGGAGCTCCTGGTGAAGTGGATGAGCAGAAAAGCCAGC
 TGGAGGAGCAGCTCCAGGAAGTCAGGAAAAAGTGTGCTGAGGAGGCCAGCTGATTTCTCCCTGAAAGC
 AGAAATAACTAGTCAAGAATCTCAGATCTCAGTTATGAGGAAGAAGTGTGAAAGCTAGAGAAGAACTA
 AGTCGCCTACAACAAGAAACAGCACAATTGGAAGAAAGTGTGGAGTCAGGGAAGGCTCAGCTGGAACCTC
 TTCAGCAGCACCTACAAGAGTCACAACAGGAAATCAGCTCAATGCAAATGAGATTGGAATGAAAGATCT
 GAAAAGTATAATAACCAATCAAATTGGAGCAGTAGCCACAAAGCGTTCTTGTAAATGGTCTACAGAT
 TACTGTAGCCTCAGCACCAGCAGCAGTGAACAGCCAACCTCAACGAACATGCTGAAGGCCAAAACAACC
 TAGAGTCTGAACCCACACACCAGGAGTCTCAGTAAGAAGTAGTCTGAAATCGCACCTTCTGATGTGAC
 TGATGAAAGTGAAGCTGTGACTGTGGCTGGTAATGAGAAAGTTACTCCGAGATTTGACGATGACAAGCAC
 TCAAAGAGGAAGATCCATTTAATGTAGAATCAAGTTCAGTGCAGATGCAGTTGCAGATACAAACTGG
 ATTTTTCCAGTCTGATCCTTTTGTGGCAGTGTCTTTCAAGGATGATCCTTTTGAAAAATTGATCC
 ATTTGGTGGTACCCTTTCAAAGGCTCAGATCCTTTTGCCTGATTGCTTCTTTAAGCAGACTTCTACT
 GATCCTTTTACCATTCAAGTACGGACCCTTTCAAGTGCATCCAGCAACAGCAGTAATACATCGGTAGAAA
 CTTGGAAGCACAATGACCAATTTGCTCCTGGTGAACAGTGTGCTGTCAGCGAGTTCAGCCACAGAGA
 CCCTTTTGTCTTGTCTTTCGAAATGAATCATTGGAGATGGATTTGCTGACTTCAGCACATTATCAAAG
 GTCAACAATGAAGATGCTTTTAATCCTACCATATCAAGTCTACCAGCAGTGTGACCATTGCAAAACCTA
 TGTTAGAGGAAACAGCCAGCAAGAGTGAAGATGTGCCTCCAGCACTGCCGCCAAAGTTGGCACTCCAAC
 AAGACCTTGCCCGCCACCCCTGGGAAAAGACCCATCAACAAATTGGATTCTTCTGATCCCTTAAACTG
 AATGATCCATTTAGCCTTTCCAGGCAATGATAGTCCCAAGAAAAGATCCTGATATGTTTTGTGATC
 CATTCACTTCTTACCCTACCAATAAAGAGGCTGACCAAGCAATTTGCTAACTTCAGTGTATATCC
 CTCTGAAGAAGATATGATTGAATGGCAAAAAGGAAAGTGAAGCGGAAGAAGAAGAGGCTTGCAGAGA
 CTAATCAGCAGGAGCAAGAAGACTTGAAGTGGCAATTCAGCAATCTGAGATCTCAGAAGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG226696 representing NM_001159964
 Red=Cloning site Green=Tags(s)

MYLKSDSGLGGWIAIPAVADVLRYSICIVCWSSREKNNVEQDLKEKEDTVKQRTSEVQDLQDEVQRESINL
 QKLQAQKQVQELLGELDEQKAQLEEQLQEVKKAEEAQLISSLKAEITSQESQISSYEEELLKAREEL
 SRLQQETAQLEESVSGKAQLEPLQQHLQESQEISSMQMRLEMKDLETNNQSNWSSSPQSVLVNGATD
 YCSLSTSSSETANFNEHAEGQNNLESEPHQESSVRSSPEIAPSDVTDESEAVTVAGNEKVTPRFDDKH
 SKEEDPFNVSSSLTDAVADTNLDFQSDPFVGSDFKDDPFKIDPFGGDPFKGSDPFASDCFFKQTST
 DPFSTSDPFASNSNSNTSVETWKHNDPFAPGGTVVAAAASDSATDPFASVFGNESFGDGFADFSTLSK
 VNNEDAFNPTISSSTSSVTIAKPMLEETASKSEDPVPPALPPKVGTPTRPCPPPGKRPINKLDSSDPLKL
 NDFPFQPFPGNDSPKEDPDMFCDFPFTSSTTTNKEADPSNFAFSAYPSEEDMIEWAKRESEREEEQRLAR
 LNQQEQEDLELALSKSEISEA

TRTRPLE – GFP Tag – V

Chromatograms:

https://cdn.origene.com/chromatograms/ja2330_e04.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001159964

ORF Size: 1749 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.

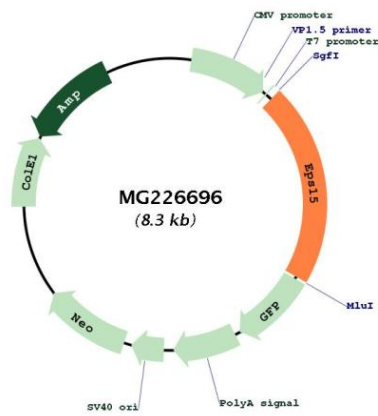
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
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_001159964.1, NP_001153436.1](#)
RefSeq Size: 4244 bp
RefSeq ORF: 1752 bp
Locus ID: 13858
UniProt ID: [P42567](#)
Cytogenetics: 4 C7

Gene Summary: Involved in cell growth regulation. May be involved in the regulation of mitogenic signals and control of cell proliferation. Involved in the internalization of ligand-inducible receptors of the receptor tyrosine kinase (RTK) type, in particular EGFR. Plays a role in the assembly of clathrin-coated pits (CCPs). Acts as a clathrin adapter required for post-Golgi trafficking. Seems to be involved in CCPs maturation including invagination or budding. Involved in endocytosis of integrin beta-1 (ITGB1) and transferrin receptor (TFR); internalization of ITGB1 as DAB2-dependent cargo but not TFR seems to require association with DAB2.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226696