

## Product datasheet for **MG200734**

### Pea15a (NM\_011063) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Pea15a
Synonyms:	Mat; Mat1; Pea; PEA-; PEA-15; Pea15; Pkcs; Pkcs15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >MG200734 representing NM\_011063  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCAGAGTACGGAACTCTCCTTCAGGACCTGACCAACAACATCACCCCTGAAGATCTGGAACAGCTCA  
AGTCAGCCTGCAAGGAGGACATCCCAAGTGAAGAGTGAAGGATCACCCAGGCAGTGCCTGGTTAG  
CTTCTGGAGGCCACAACAAGCTGGACAAAGACAACCTCTCTACATTGAGCACATCTTTGAGATATCT  
CGCCGTCTGACCTCCTCACTATGGTGGTTGACTACAGAACCCTGTGCTGAAGATCTCTGAGGAGGAGG  
AGCTGGACACCAAGCTAACCCGTATCCCAAGTGAAGAGTACAAGACATTATCCGGCAGCCCTCTGA  
AGAAGAAATCATCAAATGGCTCCCCACCAAGAAGGCC

ACGCGTACGCGCCGCTCGAG - GFP Tag - GTTAA

**Protein Sequence:** >MG200734 representing NM\_011063  
Red=Cloning site Green=Tags(s)

MAEYGTLLQDLTNNITLEDLEQLKSACKEDIPSEKSEEITTSAAWFSFLESHNKLKDKNLSYIEHIFEIS  
RRPDLLTMVVDYRTRVLKISEEEELDTKLTRIPSAKKYKDIIRQPSEEEI IKLAPPPKKA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**


**ACCN:** NM\_011063

**ORF Size:** 390 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:**

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.

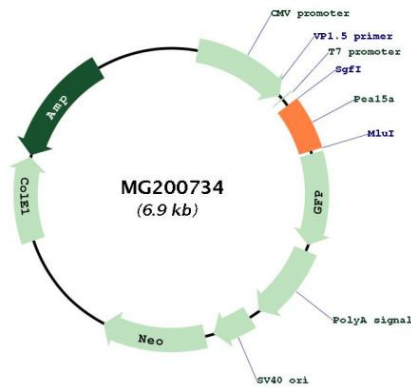
**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq:	<a href="#">NM_011063.3</a>
RefSeq Size:	2477 bp
RefSeq ORF:	393 bp
Locus ID:	18611
UniProt ID:	<a href="#">Q62048</a>

Cytogenetics: 179.54 cM

**Gene Summary:** This gene encodes an adaptor protein that functions as a negative regulator of apoptosis induced by tumor necrosis factor- $\alpha$ , tumor necrosis factor-related apoptosis-inducing ligand, and Fas, through its interaction with fas-associated protein with death domain and caspase-8. It also regulates proliferation signaling by relocating the extracellular signal-regulated protein kinases 1 and 2 to the cytosol. The protein encoded by this gene contains an N-terminal death effector domain and a long, flexible C-terminal tail. In humans, the encoded protein is an endogenous substrate for protein kinase C. This protein is overexpressed in type 2 diabetes mellitus, where it may contribute to insulin resistance in glucose uptake. Multiple pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2016]

### Product images:



Circular map for MG200734