

## Product datasheet for **MG216743**

### Eefsec (NM\_023060) Mouse Tagged ORF Clone

#### Product data:

<b>Product Type:</b>	Expression Plasmids
<b>Tag:</b>	TurboGFP
<b>Symbol:</b>	Eefsec
<b>Synonyms:</b>	mSelB; sec; Selb
<b>Mammalian Cell Selection:</b>	Neomycin
<b>Vector:</b>	pCMV6-AC-GFP (PS100010)
<b>E. coli Selection:</b>	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:** >MG216743 representing NM\_023060  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCCCGCCGGCGGTAATGTGAATGTGGCGTGTGGTGCACATCGACAGTGGCAAAACAGCGCTGG  
 CGCGCGCGCTGAGCACACGGCTCCACTGCTGCCTTCGACAAGCAGCCGAGCCGCGAGCGCGGCAT  
 AACGCTCGACTGGGCTTCTCCTGTTTTGTGCTGCCGTGCCGGGGCAGAACCCTGTTCTAGCGACACG  
 CTGTGTCAGGTCACACTGGTCGACTGCCCCGGGCACGCTCCCTCATCCGGACCATATTGGCGGTGCC  
 AGATCATTGATTTGATGATGCTCGTGATTGATGTGACCAAGGAATGCAGACACAGTCCGAGAGTGCCT  
 TGTGATTGGCCAGATCGCTGCCAGAAGCTGGTTGTGGTGTGAACAAAATAGACCTGTTAGCAGAAGGG  
 AAGAGACAGGCAGCGATTGACAAAATGACCAAGAAAATGCAGAAGACTCTTGAGAACACCAAATCCGGG  
 GTGCACCGATTATCCCGTGGCAGCCAAACCTGGGGGACCAGAAGCCCCTGAAACTGAAGCTCCACAGGG  
 CATCTCAGAACTCATTGAGCTCCTGAAGTCCAGATTTCCATCCCAACGAGAGACCCCTCTGGACCATT  
 CTTATGCTGTGGACACTGCTTCTCCATCAAGGGTCAAGGACCGTGATGACTGGGACTATCCTCTCAG  
 GCACTATCAGCCTTGGGGACAGTGTGGAGATCCCTGCCCTCAAGGTGGTGAAGAAAGTGAAGTCCATGCA  
 GATGTTCCATACACCCGTACCTCTGCCATGCAGGGGACCAGTGGGCATCTGTGTACCCAGTTTGAC  
 CCCAAGCTGTTGGAGCGTGGGCTGGTATGTGCACCCGAGTCTCTGCACACTGTTACGCAGCCCTCATCT  
 CTGTGGAGAAGATCCCTTACTTCCGAGGACCTCTGCAGACCAAGGCCAAGTTCCATATCACCGTTGGCCA  
 TGAGACAGTCATGGGTCGCACGCTGTTCTTCAGCCCTGCTCCTGACAGCTTTGACTTGGAGCCCGTGCTA  
 GATTCCTTCGACCTTTCCCGAGAGTACCTTCCAAGAGCAGTACCTGTGCAAGGATTCCATGCCACAG  
 CCACAGAAGGTGATGACGAGGGGACCCCAAGCCGGCCACGCCCCAGGGGGCCACTGCCCCGGCAGCA  
 GTGGGGCCCTGGTAGAGTTTGAAGCCAGTCACTGCCCCGACTCTGCTTGGTGATTGGCTCCAGACTA  
 GATGCCGACATTACACCAACACATGCCGGCTGGCCTTCCATGGTGTCTTGTGCAAGGGCTGGAGGACA  
 AGAACTACATTGAGAGCTTCTGCCAGCACTGAGGGTTTACAAGCTGAAGCACAAGCATGGCCTTGTGGA  
 CGGGTAAATGGATGACTACAGCGTATTGGACGTTCCCTGTTCAAAAAGGAGACCAACATCCAGCTCTTT  
 GTGGGGCTTAAAGGTGCAGCTGTCACAGGGGAACAGGGTATCATCGACAGTGCCTTCGGCCAAAGTGCCA  
 AGTTCAAGATCCACATCCCTGGTGGCTCAGCCCTGAGTCCAGAAGATCCTGACACCTACACTCAAGAA  
 GCGGAGCCGAGCCGGCTGGAGAGACCACCAAGCCAGAGGAGGGCACTGAACGGCCAGAGCCATCCAG  
 CCTGTGACACTCAACCTGTCTTCAAGCGCTATGTCTTTCAGCCAGAACGCGCATGGTACAGACTCCC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG216743 representing NM\_023060  
 Red=Cloning site Green=Tags(s)

MAGRRVNVNVGVLGHIDSGKTALARALSTTASTAAFDKQPQSRERGITLDLGFSCFVPLPGAEPGSSDT  
 LLQVTLVDCPGHASLIRTIIGGAQIIDLMMLVIDVTKGMQTSACLIVIGQIACQKLVVVLNKIDLLAEG  
 KRQAAIDKMTKMQKTLLENTKFRGAPIIPVAAKPGGPEAPEAPEAQGISIELIELLKSQISIPTRDPSGPF  
 LMSVDHCFSIKGGTVMGTILSGTISLGDSEIPALKVVKVKSQMFMHTPVTSAMQGDRLGICVTQFD  
 PKLLERGLVCAPELHTVHAALISVEKIPYFRGPLQTKAKFHITVGHETVMGRTLFFSPAPDSFDLEPVL  
 DSFDL SREYLFQEYLCKDSMPTATEGDDEADPKAGHAPGGHCPRQWALVEFEKPVTCPRCLVIGSRL  
 DADIHTNTRLAFHGVLLQGLEDKNYIESFLPALRVYKLVKHKHGLVERVMDDYSVIGRSLFKKETNIQLF  
 VGLKVQLSTGEQGIIDSAFGQSGKFKIHIPGGLSPESKKILTPTLKKRSRAGRGETTKPEEGTERPEPIQ  
 PVTNLNLSFKRYVFDQKRMVQTP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_023060

**ORF Size:** 1749 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:**

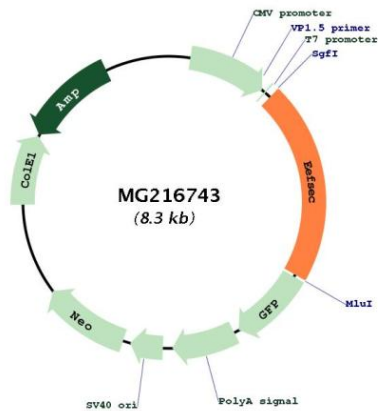
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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:** [NM\\_023060.3](#), [NP\\_075547.1](#)

**RefSeq Size:** 2679 bp

RefSeq ORF:	1752 bp
Locus ID:	65967
UniProt ID:	<a href="#">Q9JHW4</a>
Cytogenetics:	6 D1
Gene Summary:	Translation factor necessary for the incorporation of selenocysteine into proteins. It probably replaces EF-Tu for the insertion of selenocysteine directed by the UGA codon. SelB binds GTP and GDP.[UniProtKB/Swiss-Prot Function]

**Product images:**

Circular map for MG216743