

Product datasheet for **MG207860**

Prei4 (BC033408) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prei4 (BC033408) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prei4
Synonyms:	2310004G06Rik, mKIAA1434
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG207860 representing BC033408
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCAACAGCCTGGAGATATCCTTAATAAGTGACAATGAGTTCAGTGCAGGCACTCACAGCCAGAAT
 GTGGGTATGGCTTACAGCCCGATCGTTGGACAGAGTACAGCATACAGACAATGGAACCAGATAATCTGGA
 GCTCATCTTTGACTTTTTTGGAGGAAGATCTCAGTGAGCATGTAGTTCAGGGTGATGTTCTTCTGACAC
 GTGGGCACAGCATGCCTCTGTCTTCTACCATTGCTGAGAGTGGAAAGAAGCGCTGGAATCCTTACTCTTC
 CCATCATGAGCAGAAATCCAGAAAAATAGGCAAAGTACAGAGTTGATTTTATCATCATCAAGCCATT
 ACCTGGATATAGTTGTTCTATGCAGTCTTCATTTTCCAAGTATTGGAAACCAAGAATACCATTGGACGT
 GGACATCGTGGTGCAGGGAACCAACAACGACTGCCAAGCTAGCTAAAGTACAGGAAAATACTATCGCTT
 CTTAAGAAATGCTGCCAGTATGGCGCAGCATTGTAGAAATTTGATGTCCACCTTCAAAGGACTTTGT
 GCCCGTGGTGTATCATGACCTCACCTGCTGTGACCATGAAGAGGAAAATGAAGCTGATCCAGTTGAA
 TTGTTTGAATCCAGTAAAAGAATTAACATTTGACCAACTCCAGTTATTGAAGCTTTCTCATGTGACTG
 CATAAAAACCAAGACCGGAAACAATCTTTGTATGAGGAGGAAAATTTCTTTCTGAAAATCAGCCATT
 TCCTTCTCTTAAGATGGTTTTAGAAATCATTGCCAGAAAATGATAGGATTTAATATAGAAAATAAATGGATT
 TGCCAACACAGGGATGGAGTATGGGATGGCAACTATCAACATATTTGATATGAATGTGTTTTGGATA
 TAATTTTAAAACTGTTTTAGAAAATCTGGGAAGAGGAGAATAGTGTTCCTTTCTTTGATGCAGATAT
 TTGTACAATGGTTCGGCAGAAGCAGAACAATATCCCATATTATTTTGACCCAAGGAAAGTCTGATATT
 TACCCGAACCTCATGGACCTCAGATCTCGGACAACACCCATTGCAATGAGTTTTGCACAGTTTAAAAATA
 TTTTGGGATAAATGCCATACTGAAGACCTCCTTAGAAAACCCATCCTATGTCCAAGAGGCAAAAGCTAA
 GGGATTGGTCATATTCTGCTGGGTGATGATACCAACGATCCTGAAAACAGAAGGAAACTGAAGGAATTT
 GGAGTAAATGGTCTAATATATGATAGGATATGATTGGATGCCTGAACAGCCAAATATATTCCAAGTGG
 AGCAGTTGGAGCGCTGAAGCAAGAATTGCCAGAGCTTAAGAAGTGTGTGTCCTGTTAGCCACTT
 CATCCCTTCTTTCTGTGTGGAGCCTGATATCCACGTGGATGCCAACGGCATTGATAGTGTGGAGAAC
 GCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207860 representing BC033408
 Red=Cloning site Green=Tags(s)

MSNSLEISLISDNEFKRHSQPECGYGLQPDWTEYSIQTMEDNLELIFDFFEDLSEHVVGQDVLPGH
 VGTAALLSSTIAESGRSAGILTLPIMSRNSRKTIGKVRVDFIIKPLPGYSCSMQSF SKYWKPRIPLDV
 GHRGAGNSTTTAKLAKVQENTIASLRNAASHGAAFVEFDVHLSKDFVPVVYHDLTCCLTMKRKYEADPVE
 LFEIPVKELTFDQLQLLKLSHVTALKTKDRKQSLYEEENFFSENQPFPSLKMVLESLPENVGFNIEIKWI
 CQHRDGVWDGNSLTYFDMNVFLDIILKTVLENSGKRRIVSSFDADICTMVRQKQNKYPILFLTQGKSDI
 YPELMDLRSRTTPIAMSFQFENILGINAHTEDLLRNPSYVQEAkakGLVIFCWGDDTNDPENRRKLKEF
 GVNGLIYDRIYDWMEQPNIFQVEQLERLQELPELKNCLCPTVSHFIPSSFCVEPDIVHDANGIDSVEN
 A

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



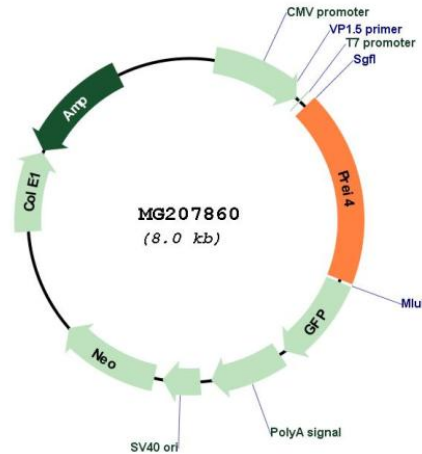
```

                                Kozac
                                Consensus
                                SgfI   AscI
EcoRI   BamHI KpnI   RBS
CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

HindIII  NheI  RsrII  MluI      NotI   XhoI      GFP Tag
CAAGCTTAAGCTAGCTAGCGGACCG  ACG CGT  ACG CGG  CCG CTC GAG  ATG GAG AGC GAC ---
                                   T  R  T  R  P  L  E      M  E  S  D  -  -  -

                                PmeI   FseI
--- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
- - - E  E  R  V  Stop
  
```

Plasmid Map:



ACCN: BC033408

ORF Size: 1475 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.

RefSeq: [BC033408](#), [AAH33408](#)

RefSeq Size: 3174 bp

RefSeq ORF: 1475 bp

Locus ID: 74182

Cytogenetics: 2

Gene Summary: May be involved in the negative regulation of skeletal muscle differentiation, independently of its glycerophosphocholine phosphodiesterase activity.[UniProtKB/Swiss-Prot Function]