

Product datasheet for **MG223959**

Zfp790 (NM_001145880) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|----------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Zfp790 (NM_001145880) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Zfp790 |
| Synonyms: | 6330581L23Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MG223959 representing NM_001145880, **codon optimized**.
Due to the complexity of NM_001145880, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCACGTCATGACGTTTAGAGACGTTGCAGTCGACTTCTCACCCGAAGAATGGGAGTGCTTGAGCC
 TCGATCAGAAGTCACTGTACAGAGACGTTATGCTGAAAAATTACTCCACCTCGTCTCTGTTGGGCTCTG
 TATATATCAACCTCACGGCTTCCCTGTGCCGAGAAAAGAACAGGATGCTTGCATGGACCTCGAAATGAA
 CCCTCAAGATTCTGCCAGACACAGACAGTAGATGGCAGATGAAAAGGCCCTGAGGACCAATCCACAT
 GTGCCACCCGACTGTCCATTGGGAGGGAATGGGCATGGAACCTAAGCATGGCCTTGACGCTTCTTGCCC
 TGCCGCGGACTGGGAAGGAAAGGTCAAGAACCCCCACAGAGTGAGAACCAGGAGAAACATTGCAACAG
 ATGACCCTGGCCTGTGACAACTGCCACTGTTGAACCTCCTCACCGCTCTGCAGTGTCCACGCTTGAAGC
 TTGCTGAAAAAATAAGAGGTTAAGAGCGAGAAGAGCTTTTCTTCGCTCCTGAACCGGCGCAGCTCCA
 GTTGATCCACACCGGGGAGAAATTCGAAGAGGACAAAAAAGGGGCAAGACATCCCTCCGGGCCCTAAG
 TTGACCAGATATCGCGCGTGCAGGACGGCAAGAAAGCGTTCCAATGTGATGAGTGTGGCAAAGCCTTCA
 GCTTTCGGAGCTCCCTGACGGGGCATAAGCGGATCCATACCGGCGAAAAACCTTTCACCTTGAAGGAGTG
 CGGTAAGCCTTCCGCTCCACTCCCTGCTCAGCGTTCATGTCCGGACACACAGGTGAAAAAGCCTTAT
 GAGTGCAAAGCGTGCAGAAAGTTTTTCAATTACTCATCCGATCTGACCCGGCACCATAGAATCCACACCG
 GGGAGAAGCCCTACCAGTGTCCGGAGTGTGAAAAAGCCTTCAGCTGTGGTAGCGACTGACGCGCCATGA
 ACGGATACACACTGGCGAAAAACCATATGAATGTAATGAGTGTGGGAAAGCATTTATCCAGCAGTCACAC
 CTCATCAAACATCAGCGGATTCACACAGGCGAAAAAGCCGTATGTGTGCAAGGAGTGTGGCAAAGCCTTCA
 CTTGCGGTTCTCAGTTGTCTCAACACAGGAAGTCCACACTGGCGACAACTTCACAAATGCAAGGAGTG
 CAAAAATCATTCTTTTGCATTGGACCACCCAGCGACAGCTGATATACATAGGTGAGAAATCTTT
 GAGGACAAGGAGAACGGGAAACCTTTTTCTGGTGCAGGATCCCCAGTGCAGAAACCGTACATACCG
 GGAAGAAGTTGTACGAGTCAAGGAGTGTGAAAAAGCCTTTAGCTTGAGATCCATAGTCTCTAGCTTGAA
 AAAAAATCCATAATCGCGAAAAGCTTTTAAATGCAAGACTGTGAAAAAGCCTTTCGGTGTCTTCCGAC
 CTGTCCCAGACATCAGAAAATTCACACGGGTGAAAAAGCCATACAAGTGAAGGAGTGTGAAAAAGGCTTCA
 TTTGCAGATCAGACCTGGGCCGCCATCAGAGGGTACACACAGGAGTCAAGCCGTATGTGTGAAGGAATG
 CGGGAAGGCGTTCACGCGGGGCGCCATCTGACACAGCACCAGAAGATACATAGCAAAAAGTCTCACGAG
 TTTAACGAGGGTGAGAAGGCATTTAGTTCTGGGCTTGAGAATACCCCTCACAGTCTGATACCAACCGGAG
 AAAAATCTGGGAGAGAAAAGAGTACGGCGAGGCGGTGCTGCACGACCCCGAACGGACCCAGCTGCAGGC
 CGCAAAGACAACCTACGATTGTAAGGAGAAGGGTAAAGATTTTCTGGCATAGTCACGACACTGACCTG
 AAGGCCGTGCACATTAGAGAGAAGAGGTTCCAGTGAAGGAGTGCCCAAAAGCTTTCAGGTATAGCAGCG
 AGCTCACCCGGCACAGAGGCTGCATACTGGGGAGAAAACCATACAAGTGTCAAGAGTGTGGAAGGCTTT
 CGCCTCCGCTTCCGATCTCGCCAGACACCAGCGGATCCACACGGGTGAGAGGCCCTTACGAATGTAACGAA
 TGCGGTAAGCCTTCAATCAACAGAGTCATCTGATAAAGCACCAGCGAGTGCACAGCGCAGAGCAGCCCA
 AGGACGTGATGAGCGCTGAGAAGCCCTCCCTGGGGTACCAATGCTGCTGAATATGAGGGAAATCACTCT
 GGTCAACAATCTCATCAACCTGCGCTCCGTCCGGGAAGATCCTTCTATGGCTCAGCTGAATCCATGCCAA
 AAAATCTACACCGACAAGAAGCTCAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence: >MG223959 representing NM_001145880
 Red=Cloning site Green=Tags(s)

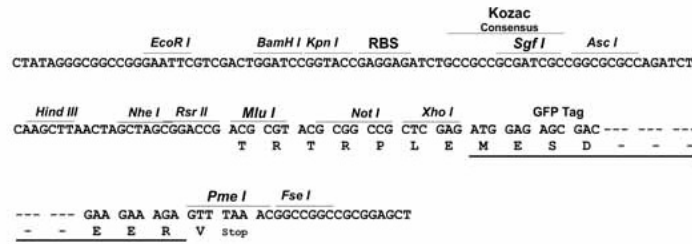
MAHVMTFRDVAVDFSPPEWECLSLDQKSLYRDVMLENYSHLVSVGLCIYQPHGFPVPEKEQDACMDLGNE
 PSRFCPDTDSRWQMKKALRTNSTCATRLSHWEGMGMEPKHGLAASCPAADWEGKGQEPQSENQEETLQQ
 MTLACDKLPLLNLTLALQCPRLKLAEKTKVKSEKSFSAPEPAQLQLIHTGEKFEEDKKRGKTFPPGPK
 LTRYRAVDGKKAFQCDECGKAFSFRSSLTGHKRIHTGEKPFCTKECGKAFRFHSLLSVHVTRHTGEKSY
 ECKACGKFFNYSSDLTRHRIHTGEKPYQCRECGKAFSCGSDLTRHERIHTGEKPYECNECGKAFIQQSH
 LIKHQRIHTGEKPYVCKEKGKAFTCGSQLSQHRKIHTGDKLHKCKECKNSFSFALDHTQRQLIYIGEKFF
 EDKENGETFFPGAEPQCETVHTGKKLYECKEKGKAFSLRSIVSSLKKIHNREKLFKCKDCEKAFRCPSD
 LSRHQKIHTGEKPYKCKEKGKGFICRSDLGRHQRVHTGVKPYVCKEKGKAFTRGAHLTQHQKIHSKKSHE
 FNEGEKAFSSGLENTPHSLIPTGEKLWERKEYGEAVLHDPERTQLQAAKTTYDCKEKGKDFSWHSHDIDL
 KAVHIREKRFQCKECPKAFRYSSSELTRHQRILTGEKPYKQCECWKAFASASDLARHQRIHTGERPYECNE
 CGKAFIQQSHL IKHQRVHSAEQPKDVMSAEKPSLGPMLLNMRFTLVNNLINLRSVGIKILLMAQLNPCQ
 KIYTDKKLS

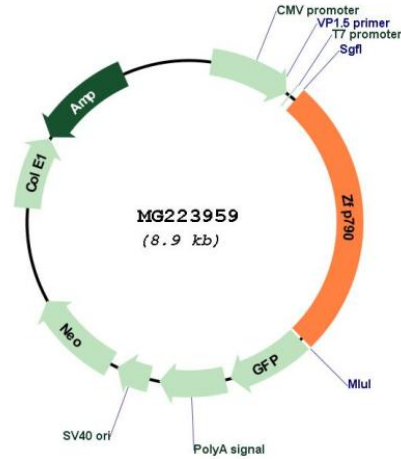
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_001145880

ORF Size: 2337 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: [NM_001145880.1](#), [NP_001139352.1](#)

RefSeq Size: 4435 bp

RefSeq ORF: 2340 bp

Locus ID: 233056

Cytogenetics: 7 B1