

## Product datasheet for **RG206599**

### FRZB (NM\_001463) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FRZB (NM_001463) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FRZB
Synonyms:	FRE; FRITZ; FRP-3; FRZB-1; FRZB-PEN; FRZB1; FZRB; hFIZ; OS1; SFRP3; SRFP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206599 representing NM_001463 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTCTGCGGCAGCCCGGAGGGATGCTGCTGCTGCGGGCCGGGCTGCTTGCCCTGGCTGCTCTGCC  
TGCTCCGGGTGCCCGGGCTCGGGCTGCAGCCTGTGAGCCGTCGCATCCCCCTGTGCAAGTCCCTGCC  
CTGGAACATGACTAAGATGCCCAACCACCTGCACCACAGCACTCAGGCCAACGCCATCCTGGCCATCGAG  
CAGTTCGAAGGTCTGCTGGCACCCACTGCAGCCCGATCTGCTCTTCTCTCTGTGCCATGTACGCGC  
CCATCTGCACCATGACTTCCAGCACGAGCCCATCAAGCCCTGTAAGTCTGTGTGCGAGCGGGCCCGCA  
GGGCTGTGAGCCATACTCATCAAGTACCGCCACTCGTGGCCGGAACCTGGCCCTGCGAGGAGCTGCCA  
GTGTACGACAGGGCGTGTGCATCTCTCCCGAGGCCATCGTTACTGCGGACGGAGCTGATTTTCCTATGG  
ATTCTAGTAACGAACTGTAGAGGGGCAAGCAGTGAACGCTGTAATGTAAGCCTATTAGAGCTACACA  
GAAGACCTATTTCCGGAACAATTACAATATGTCATTCGGGCTAAAGTTAAAGAGATAAAGACTAAGTGC  
CATGATGTGACTGCAGTAGTGGAGGTGAAGGAGATTCTAAAGTCTCTCTGGTAAACATTCACGGGACA  
CTGTCAACCTCTATACCAGCTCTGGCTGCCTCTGCCCTCCACTTAATGTTAATGAGGAATATATCATCAT  
GGGCTATGAAGATGAGGAACGTTCCAGATTACTCTTGGTGAAGGCTCTATAGCTGAGAAGTGAAGGAT  
CGACTCGGTAAAAAGTTAAGCGCTGGGATATGAAGCTTCGTCATCTTGGACTCAGTAAAAGTATTCTA  
GCAATAGTGATTCCACTCAGAGTCAGAAGTCTGGCAGGAACCTCGAACCCCGCAAGCACGCAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206599 representing NM\_001463  
 Red=Cloning site Green=Tags(s)

MVCGSPGGMLLLRAGLLALAALCLLRVPGARAAACEPVRIPLCKSLPWNMTKMPNHLHHSTQANAIIAIE  
 QFEGLLGTHCSPDLLFFLCAMYAPICTIDFQHEPIKPKCSVCERARQGCEPILIKYRHSWPENLACEELP  
 VYDRGVCISPEAIVTADGADFPMDSSNGNCRGASSERCKCKPIRATQKTYFRNNYVIRAKVKEIKTKC  
 HDVTAVVEVKEILKSSLVNIIPRDTVNL YTSSGCLCPPLNVNEEYIIMGYEDEERSRLLLVEGSIAEKWKD  
 RLGKKVKRWDMKLRHLGLSKSDSSNSDSTQSQKSGRNSNPRQARN

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001463

**ORF Size:** 975 bp

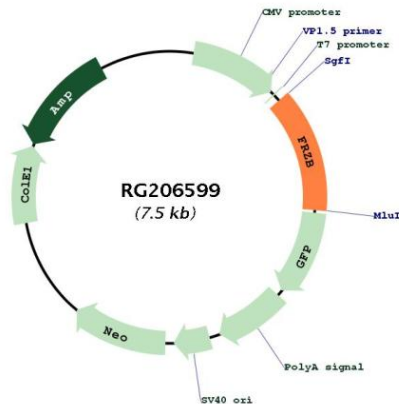
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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\\_001463.4](#)
- RefSeq Size:** 2058 bp
- RefSeq ORF:** 978 bp
- Locus ID:** 2487
- UniProt ID:** [Q92765](#)
- Cytogenetics:** 2q32.1
- Domains:** FRI, NTR
- Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway
- Gene Summary:** The protein encoded by this gene is a secreted protein that is involved in the regulation of bone development. Defects in this gene are a cause of female-specific osteoarthritis (OA) susceptibility. [provided by RefSeq, Apr 2010]

**Product images:**



Circular map for RG206599