

Product datasheet for **RG212941**

ZNF233 (NM_181756) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF233 (NM_181756) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF233
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG212941 ORF sequence, **codon optimized**.
 Due to the complexity of NM_181756, 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)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGACAAAGTTCAGGAGATGGTCACTTTTAAGGATGTAGCCGTCGTGTTACAAGAGAAGAGCTCGGGC
 TGCTTGACCTCGCCCAACGCAAGCTCTATCAGGACGTTATGCTGGAGAATTTAGGAACCTGCTCAGCGT
 CGGCTACCAACCATTCAAAGTGGATGTAATCTCCAGCTGGGAAAAGAAGATAAGTTGAGAATGATGGAA
 ACCGAAATACAGGGCGACGGATGTTCTGGACACAAAAACCAGAATGAAATTGATACACTCAAGAGGTTA
 GGCTCAGATTCCTGTCTATGAAGACCTGATTTGCTGGCAAATCTGGGAGCAATTTACATCCAAGCTGAC
 CAGCAACCAGGATCTGATAATCAACCTGCAGGGAACGAGCAAGCTGCTGAAACAGGGCGATAGCCCG
 TGTGAGGTGTGGACAGGAGAGTCCAGCCAGGTGTCCGAAGATGAAAATTATGTGATCAAGCTGCAGGGCG
 AGTCTCTAACAGCATAAAGAACCAGGAACCTCCTCTCCGACCAAGTGGGATTTCTGGAGAAAGATGTA
 TCTGAGAGAACCACAGAATTACCACTCTCGGTGTGACGAGATTGACGTCAAAAATAAGCTGTGCAAGTGC
 GACCATTTGCGTCAGACAGAGAATAGCACATCAGCAGCAGATCACGGGGTCCACAAGAGAGAAAAAGCCT
 TCAGCCACAACAACTGCGGAAAGGACTGCGTTAAAGAATCCTCACAGCACTCTATCATCCAGAGTGGCGA
 ACAGACGTCCGACGAGAACGGTAAAGGCCTTTCTGTCGGGTCCAACCTTGAAGTGCACAGCAACTGCAT
 CTGAGGGACAAGCCACAGTTAACGTGGAATACGGGAAGGGTATTGGGTATTCTTCAGGGCTGCCAAGGC
 ATCAGTGTGTTTACATTGGTGAATAATGCTACCGGAACGCGGATTGAGGTGAGGGCTTTTCCAGGGTTC
 ACATCTGCAGCCTCATCAGCGGGTGAAGTACCGCGAGAATCTGTACCGCTGTGAGGTGTACGCCAGATCT
 AGTAATCAGAATAGCTGTCTGCCCTCTCAGGAGTGAACCATCCAGGCGAAAAGCTTTGTACCTGCGGAA
 GATGTGGGAAAGGTTTTCAACCTCTCTGGATTTGACATACATTGCGTGGACAGCGCCGGTGAGAGAGC
 TTGTAAGTGCGACGTGTATGACAAGGGTTTTCCAGACATCCCAACTGCAGGCCACCAGCGGGGCCAT
 AGCAGAGATAAACCTACAAGTGGGAAGTGTGAGATAGGATATTTAACCGGAATAGCGGATTGCACCAAC
 GGGTTCACACAGGAGAAAAGCCTTACAAGTGTGAGGTTTTCGACAAAGGATTTAGCAAAGCGAGTAACCT
 CCAGGCCACCAGCGAATCCACACAGGGGAGAAGCCATACAAATGCGACGTGTGCGACAAAAATTTAGC
 CGGAACAGCCACCTTCAGGCTCATCAAAGGTACACACTGGCGAAAAGCCATACAAATGCGATACTTGCG
 GTAAGGATTTTTCTCAGATTTCCACCTCCAGGCTCACCAACGGGTGCATAAGGGAGAAAAACCGTATAA
 ATGTGAAACCTGCGGCAAGGGTTTTCTCAGTCATCACACCTCCAGGACCATCAACAAGTCCATACTGGG
 GAAATCCGTACAAGTGTGACGTATGTGGTAAAGGCTTCAGCTGGAGCTCCACCTCCAGGCCATCAGA
 GGGTGCATACAGGGGAGAAACCTACAAGTGCAGGAGGTAGGAAGGGGTTTATCTGGAACAGTTACCT
 GCACGTCCACAGCGCATCCACACAGGGGAGAAGCCCTATAAATGCGGAATGTGCGGGAAGTCAATCAGC
 CAGACGTCACACCTTCAGGCACACAGAGAGTCCACACTGGGGAGAAGCCCTACAAGTGCTTCGTGTGTG
 GCAAAGGGTTTTCTAAAAGTTCCTCTCTTCTGATTCCAGTGAGAGTCCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

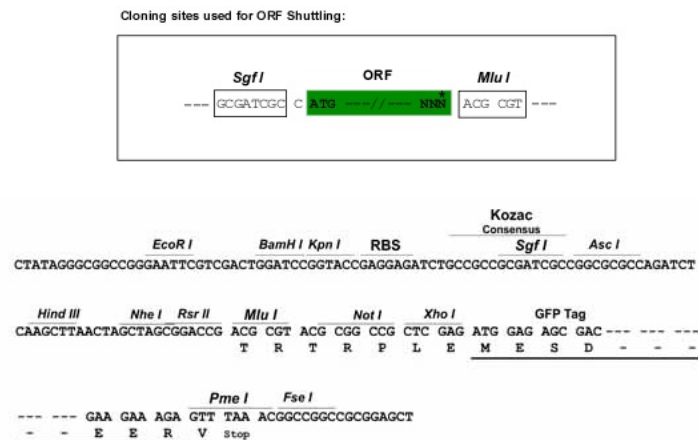
Protein Sequence: >RG212941 representing NM_181756
 Red=Cloning site Green=Tags(s)

MTKFQEMVTFKDVAVVFTREELGLDLAQRKLYQDVMLENFRNLLSVGYQPFKLDVILQLGKEDKLMMME
 TEIQGDGCSGHNQNEIDTLQEVRLRFLSYEDLICWQIWEQFTSKLTSNQDLIINLQGRSKLLKQGDSP
 CQVWTGESSQVSEDENYVIKLQGESSNSIKNQELPLRTTWDFWRKMYLREPQNYQSRCQQIDVKNKLCCK
 DHCVRQRIAHQHDHGVHKREKAFSHNNCGKDCVKESSQHSIIQSGEQTSDENGKGLSVGSNLELHQQLH
 LRDKPHVNVEYGGIGYSSGLPRHQCFHIGEKCYRNGDSGEGFSQGSHLQPHQRVSTGENLYRCQVYARS
 SNQNSCLPSHELTHPGEKLCTCGRCGKGFHSLDFDIHCVDASAGERACKDVYDKGFSQTSQQLQAHQRGH
 SRDKTYKEVSDRIFNRNSGLHQRVHTGEKPYKCEVCDKGFSKASNLQAHQRIHTGEKPYKCDVCDKNFS
 RNSHLQAHQRVHTGEKPYKCDTCGKDFSQISHLQAHQRVHKGEKPYKCETCGKGFSSSHLQDHQVHTG
 ENPYKCDVCGKFSWSSHLQAHQRVHTGEKPYKCEECKGFIWNSYLVHVQRIHTGEKPYKCGMCGKSFS
 QTSHLQAHQRVHTGEKPYKCFVCGKFSKSSLSDDSSSESP

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181756

ORF Size: 2010 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_181756.1, NP_861421.1

RefSeq Size: 2806 bp

RefSeq ORF: 2013 bp

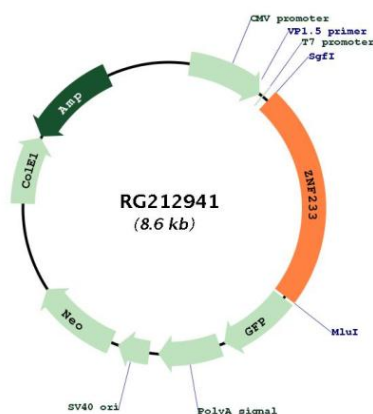
Locus ID: 353355

UniProt ID: A6NK53

Cytogenetics: 19q13.31

Gene Summary: May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG212941