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Product datasheet for RC212941

ZNF233 (NM_181756) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF233 (NM_181756) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF233
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC212941 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAAAGTTCCAGGAGATGGTCACTTTTAAGGATGTAGCCGTCGTGTTCACAAGAGAAGAGCTCGGGC
TGCTTGACCTCGCCCAACGCAAGCTCTATCAGGACGTTATGCTGGAGAATTTTAGGAACCTGCTCAGCGT
CGGCTACCAACCATTCAAACTGGATGTAATTCTCCAGCTGGGAAAAGAAGATAAGTTGAGAATGATGGAA
ACCGAAATACAGGGCGACGGATGTTCTGGACACAAAAACCAGAATGAAATTGATACACTTCAAGAGGTTA
GGCTCAGATTCCTGTCCTATGAAGACCTGATTTGCTGGCAAATCTGGGAGCAATTTACATCCAAGCTGAC
CAGCAACCAGGATCTGATAATCAACCTGCAGGGAAAACGCAGCAAGCTGCTGAAACAGGGCGATAGCCCG
TGTCAGGTGTGGACAGGAGAGTCCAGCCAGGTGTCCGAAGATGAAAATTATGTGATCAAGCTGCAGGGCG
AGTCCTCTAACAGCATAAAGAACCAGGAACTCCCTCTCCGCACCACGTGGGATTTCTGGAGAAAGATGTA
TCTGAGAGAACCACAGAATTACCAGTCTCGGTGTCAGCAGATTGACGTCAAAAATAAGCTGTGCAAGTGC
GACCATTGCGTCAGACAGAGAATAGCACATCAGCACGACGATCACGGGGTCCACAAGAGAGAAAAGGCCT
TCAGCCACAACAACTGCGGAAAGGACTGCGTTAAAGAATCCTCACAGCACTCTATCATCCAGAGTGGCGA
ACAGACGTCCGACGAGAACGGTAAAGGCCTTTCTGTCGGGTCCAACCTTGAACTGCACCAGCAACTGCAT
CTGAGGGACAAGCCACACGTTAACGTGGAATACGGGAAGGGTATTGGGTATTCTTCAGGGCTGCCAAGGC
ATCAGTGTTTTCACATTGGTGAAAAATGCTACCGGAACGGCGATTCAGGTGAGGGCTTTTCCCAGGGTTC
ACATCTGCAGCCTCATCAGCGGGTGAGTACCGGCGAGAATCTGTACCGCTGTCAGGTGTACGCCAGATCT
AGTAATCAGAATAGCTGTCTGCCCTCTCACGAGCTGACCCATCCAGGCGAAAAGCTTTGTACCTGCGGAA
GATGTGGGAAAGGTTTTCACCACTCTCTGGATTTCGACATACATTGCGTGGACAGCGCCGGTGAGAGAGC
TTGTAAGTGCGACGTGTATGACAAGGGGTTTTCCCAGACATCCCAACTGCAGGCCCACCAGCGGGGCCAT
AGCAGAGATAAAACCTACAAGTGGGAAGTGTCAGATAGGATATTTAACCGGAATAGCGGATTGCACCAAC
GGGTTCACACAGGAGAAAAGCCTTACAAGTGTGAGGTTTGCGACAAAGGATTTAGCAAAGCGAGTAACCT
CCAGGCCCACCAGCGAATCCACACAGGGGAGAAGCCATACAAATGCGACGTGTGCGACAAAAATTTTAGC
CGGAACAGCCACCTTCAGGCTCATCAAAGAGTACACACTGGCGAAAAGCCATACAAATGCGATACTTGCG
GTAAGGATTTTTCTCAGATTTCCCACCTCCAGGCTCACCAACGGGTGCATAAGGGAGAAAAACCGTATAA
ATGTGAAACCTGCGGCAAGGGGTTTTCTCAGTCATCACACCTCCAGGACCATCAACAAGTCCATACTGGG
GAAAATCCGTACAAGTGTGACGTATGTGGTAAAGGCTTCAGCTGGAGCTCCCACCTCCAGGCCCATCAGA
GGGTGCATACAGGGGAGAAACCCTACAAGTGCGAGGAGTGTAGGAAGGGGTTCATCTGGAACAGTTACCT
GCACGTCCACCAGCGCATCCACACAGGGGAGAAGCCCTATAAATGCGGAATGTGCGGGAAGTCATTCAGC
CAGACGTCACACCTTCAGGCACACCAGAGAGTCCACACTGGGGAGAAGCCCTACAAGTGCTTCGTGTGTG
GCAAAGGGTTTTCTAAAAGTTCCCTCTCTTCTGATTCCAGTGAGAGTCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

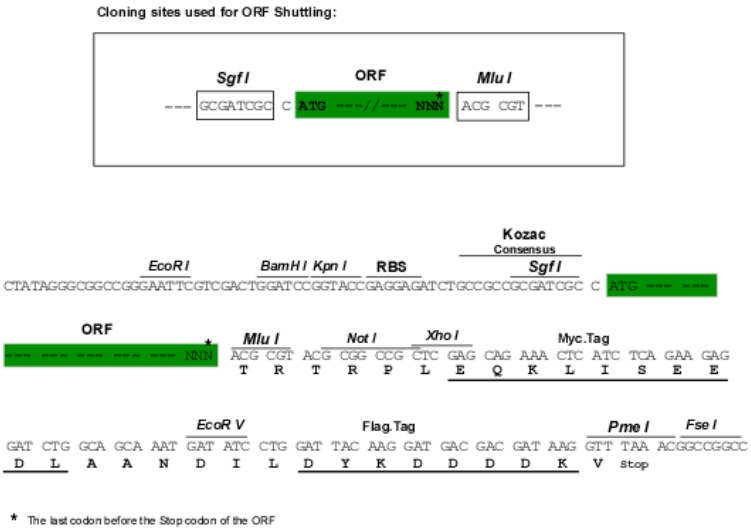
>RC212941 representing NM_181756
Red=Cloning site Green=Tags(s)

MTKFQEMVTFKDVAVVFTREELGLLDLAQRKLYQDVMLENFRNLLSVGYQPFKLDVILQLGKEDKLRMME
TEIQGDGCSGHKNQNEIDTLQEVRLRFLSYEDLICWQIWEQFTSKLTSNQDLIINLQGKRSKLLKQGDSP
CQVWTGESSQVSEDENYVIKLQGESSNSIKNQELPLRTTWDFWRKMYLREPQNYQSRCQQIDVKNKLCKC
DHCVRQRIAHQHDDHGVHKREKAFSHNNCGKDCVKESSQHSIIQSGEQTSDENGKGLSVGSNLELHQQLH
LRDKPHVNVEYGKGIGYSSGLPRHQCFHIGEKCYRNGDSGEGFSQGSHLQPHQRVSTGENLYRCQVYARS
SNQNSCLPSHELTHPGEKLCTCGRCGKGFHHSLDFDIHCVDSAGERACKCDVYDKGFSQTSQLQAHQRGH
SRDKTYKWEVSDRIFNRNSGLHQRVHTGEKPYKCEVCDKGFSKASNLQAHQRIHTGEKPYKCDVCDKNFS
RNSHLQAHQRVHTGEKPYKCDTCGKDFSQISHLQAHQRVHKGEKPYKCETCGKGFSQSSHLQDHQQVHTG
ENPYKCDVCGKGFSWSSHLQAHQRVHTGEKPYKCEECRKGFIWNSYLHVHQRIHTGEKPYKCGMCGKSFS
QTSHLQAHQRVHTGEKPYKCFVCGKGFSKSSLSSDSSESP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181756

ORF Size: 2010 bp

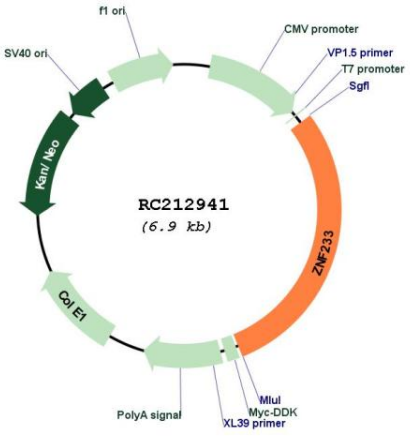
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_181756.1, NM_181756.2, NP_861421.1
RefSeq Size:	2806 bp
RefSeq ORF:	2013 bp
Locus ID:	353355
UniProt ID:	A6NK53
Cytogenetics:	19q13.31
MW:	76.9 kDa
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC212941