

Product datasheet for **RG214335**

ZNF623 (NM_001082480) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZNF623
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG214335 ORF sequence, **codon optimized**.
Due to the complexity of NM_001082480, 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)

TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGAGCTCCCTAGCCCTGAATCTGAAGAGGTTTATGAACCTAGACTGGGCGAGCTTCTCGGCAACCCGG
AAGGCCAAAGCCTGGGAGCTCACCCAGCAGGACCGAGGCTGTAAGCAGGTTACTGTTACACATTGGAA
GATTCAGACTGGCGAGACAGCCCAAGTCTGCACTAAAAGTGGCCGCAACCATATTCTGAATTCGACTTG
CTCCTGCTGCAGAGGGAGCTGATTGAAGCGAGGCCAATCCCTGCGACATCTGTGGCAAAACATTTACCT
TCAATTCTGACCTGGTGAGGCACCGAATTTCCACGCCGCGGAGAAAGCCTTACACCTGCGACCAATGCGG
CAAAGGATTTGGACAGAGCTCTCACCTTATGGAGCATCAGCGGATCCACACTGGAGAGAGACTTTACGTG
TGTAATGTCTGCGGAAAGACTTCATTATTACAGCGGCTTATCGAGCATCAGCGGTACATTCAGGCG
AAAAGCCTTTAAGTGCCTCAGTGGGAAAGCTTTTCCACAGTTCTGACTTGATCAGGCATCAGAG
AGTGACACTAGGGAACGCCGTTTGAAGTCAAAAGAGTGGGCAAAAGGCTTTTCTCAATCTAGTCTCCTG
ATCCGACACCAGCGGATTCATACCGGGGAACGCCCTTACGAGTGCAACGAATGTGGTAAATCCTTCATCC
GAAGCTCTAGTCTGATTGCGCACTATCAGATCCACACCGAAGTGAACAGTACGAATGCAAGGAGTGGG
AAAAGCCTTCGGCACCGAAGCGATCTTATCGAGCACCAGCGGATCCACACAGGCGAGCGCCCTTCGAA
TGCAATGAATGTGGGAAAGCTTTATTAGAAGCTCTAAGCTGATACAGCATCAGCGAATCCACACCGGGG
AACGCCCTTACGTTTGAATGAGTGTGGCAAGAGGTTCTCTCAGACTTCTAACTTCACTCAGCACCAGAG
GATCCATACCGGTGAGAACTGTATGAATGCAACGAGTGGGTAAGGCATTCTTTCTGAGTAGTATTTG
ATCAGGCATCAGAAAATCCACACGGGGAAAGAGTGTACGAATGCAAGAATGTGGCAAGGCATTTCTGC
AGAAGGCTCATCTGACAGAACACCAGAAGATTCTAGTGGCGACAGACCTTCGAGTGTAAGGACTGTGG
CAAAGCTTTTATCCAGAGTAGTAAGCTGCTGTTGCATCAGATCATTACACCGGCGAGAAACCTTACGTC
TGTTCTTACTGCGGCAAGGTTTATTAGCGCTCAAATTTCTTACGACACAGAAAATCCACACCGAAG
AGAACTTTATGAGTGTAGCAATACGGCCGAGATTTAACTCCACAACGAATGTCAAAAAAACCAGAG
GGTTTCATCAGGAAGGCCTCTCCTTGTCCAAGGCACCTATCCATCTTGGGAAAGATCTGTGGACAAAGGC
GAACACACAGGAAATCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

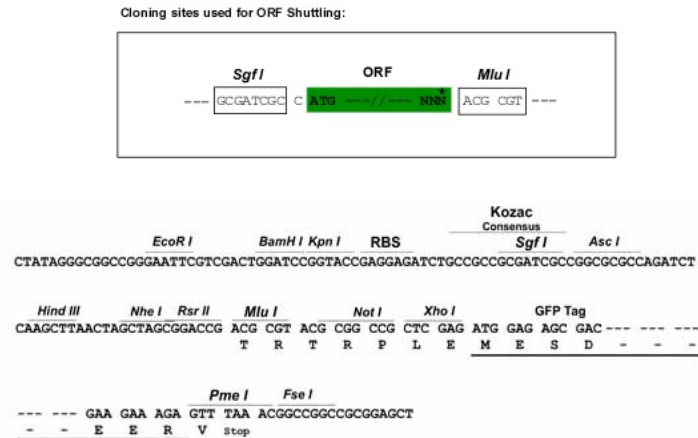
Protein Sequence: >RG214335 representing NM_001082480
Red=Cloning site Green=Tags(s)

MELPSPPESEEVHEPRLGELLGNPEGQSLGSSPSQDRGCKQVTVTHWKIQTGETAQVCTKSGRNHILNSDL
LLLQRELIEGEANPCDICGKTFTFNSDLVRHRISHAGEKPYTCDQCGKFGQSSHLMHQRIHTGERLYV
CNVCGKDFIHYSGLIEHQRVHSGEKPFCACQCGKAFCHSSDLIRHQRVHTRERPFECCKGFSQSSLL
IRHQRIHTGERPYECNECGKSFIRSSSLIRHYQIHTEVKQYECKEKGAFRHRSDLIEHQRIHTGERPFE
CNECGKAFIRSSKLIHQRIHTGERPYVCNECGKRFSTSNFTQHQRHTGEKLYECNECGKAFFLSSYL
IRHQRIHTGERVYECKEKGAFKQKHLTEHQIHSGRDPFECKDCGKAFIQSSKLLHQIHTGEKPYV
CSYCGKGIQRSNFLQHQIHTEEKLYECSQYGRDFNSTTNVKNQVRVHQEGLSLSKAPIHLGERSVDKG
EHTGNL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001082480

ORF Size: 1488 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:

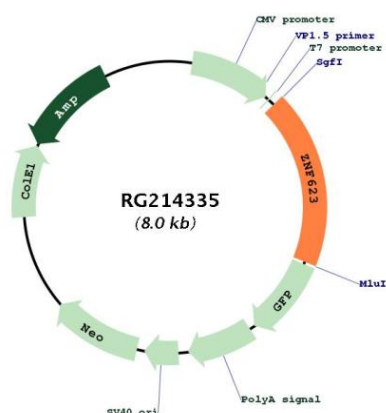
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_001082480.1](#), [NP_001075949.1](#)

RefSeq Size:	4087 bp
RefSeq ORF:	1491 bp
Locus ID:	9831
UniProt ID:	O75123
Cytogenetics:	8q24.3
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG214335