

## Product datasheet for **RG223619**

### **ZNF248 (NM\_021045) Human Tagged ORF Clone**

#### Product data:

|                           |                         |
|---------------------------|-------------------------|
| Product Type:             | Expression Plasmids     |
| Tag:                      | TurboGFP                |
| Symbol:                   | ZNF248                  |
| Synonyms:                 | bA162G10.3              |
| Mammalian Cell Selection: | Neomycin                |
| Vector:                   | pCMV6-AC-GFP (PS100010) |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |



**ORF Nucleotide Sequence:** >RG223619 ORF sequence, **codon optimized**.  
Due to the complexity of NM\_021045, 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGC**

ATGAACAAGAGTCAGGAGCAGGTTTCCTTCAAGGACGTCTGTGTGGACTTCACGCAGGAAGAATGGTACC  
TTTTGGATCCTGCCAGAAAACTGTATAGGGACGTGATCCTGGAGAATACTCAAATCTGGTAAGCGT  
AGGGTATTGCATCACAAGCCGGAAGTTATTTCAAGATAGAGCAGGGCAGGAACCTGGATCCTGGAG  
AAGGGCTTTCCATCAGTGTACCCAGAGCGGAAGTGAAGGTTGATGACGTGTTGAAAGCTCCCAGG  
AAAATGAAGACGATCATTTCTGGGAGCTTCTGTCCACAATAACAAGACGGTTAGCGTGGAGAATGGCGA  
CAGAGGGAGTAAGACCTTTAACTTGGGGACTGACCCAGTGAGTCTCAGAAATTACCCTTATAAGATCTGT  
GACTCATGCGAAATGAATTTGAAAAACATCTCCGGCCTTATAATCTCTAAGAAGAACTGCTCACGGAAGA  
AGCCAGACGAGTTCAACGTGTGCGAGAAGTTGCTGCTGGATATAAGACACGAGAAAAATCCCTATTGGAGA  
AAAGAGTTACAAGTACGACCAAGCGAAATGCAATTAATACCACGAGGACCTGTCTCAGCCAAGTTTC  
GGCCAGTCTTTTGAATACAGCAAAAAATGGACAGGGTTTTACGACGAAGCCGCATTTTTTACCAACAAAC  
GAAGTCAGATTGGGGAACAGTGTGTAATATAACGAGTGCAGGACGACTTTTATCGAGTCCCTGAAATT  
GAATATATCTCAAAGACCACACCTGGAGATGGAGCCATACGGCTGTTCAATCTGTGGCAAGTCTTTTGC  
ATGAACCTGAGATTTGGGCACCAACGCGCACTTACGAAAGACAACCCATACGAGTACAACGAGTACGGGG  
AGATATTCTGCGACAACAGTGCCTTCATTATTCATCAAGGTGCATACACCGGAAGATTCTGAGAGAGTA  
CAAAGTAAGTGATAAGACCTGGGAGAAGAGCGCCTTGCTGAAGCACCAATTTGCCATGGGGGTAAA  
TCTTACGATTACAACGAAAACGGAAGTAACTTTTCCAAGAAATCACACCTCACACAGCTTCGCCGGGGCC  
ACACCGGGGAGAAAACCTTTGAGTGTGGGGAGTGCAGCAAGACTTTCTGGGAGAAATCCAATCTGACTCA  
GCACCAACGGAAGTATACCGGGGAGAAACCATATGAGTGTACGGAATGTGGAAGGCATTCTGTGAGAAG  
CCCCACCTACCAATCATCAGAGAACACATACAGGCGAGAAACCTACGAATGTAAGCAGTGTGGAAGA  
CATTTTGTGTGAAATCAAACCTCACTGAGCATCAAAGAACCCTACAGGGGAGAAAGCCATACGAGTGCAA  
TGCATGCGGCAATCCTTCTGTACCGGAGCGCCCTGACAGTCCACGAGCAACGCATACGGGTGAGAAA  
CCATTATCTGTAAACGAATGCGGCAAGTCAATCTGTGTGAAGTCAAATCTCATTGTCCACCAACGCACTC  
ACACGGGTGAAAAGCCATATAAATGCAACGAATGTGGCAAGACCTTTTGTGAGAAGTCCGCTCTACCAA  
GCACGAGAGACACACCGGTGAGAAGCCCTACGAATGCAACGCTTGCAGAAAGACTTTTAGCCAGCGC  
TCAGTTCTTACAAAACATCAGCAATCCACACGAGTGAAGGCCCTGTCTACGAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

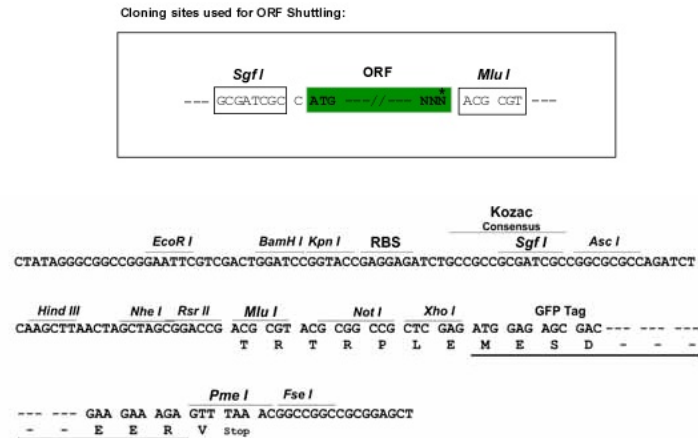
**Protein Sequence:** >RG223619 representing NM\_021045  
Red=Cloning site Green=Tags(s)

MNKSQEQVSFKDVCVDFTEQEWYLLDPAQKILYRDVILENYSNLVSVGYCITKPEVIFKIEQGEEPWILE  
KGFPSCQCHPERKWKVDDVLESSQENEDDHFELLFHNKTVSVENGDRGSKTFNLGTDVSLRNYPYKIC  
DSCMNLKNISGLIISKNCNRKKPDEFNVCEKLLDIRHEKIPIGESYKYDQKRNAINYHQLSQPSF  
GQSFEYSKNGQGFHDEAAFFTNKRSQIGETVCKYNECGRTFIESLKNISQRPHEMEPYGCSICGKSFC  
MNLRFHGQRALTKDNPEYNEYGEIFCDNSAFIIHQGAYTRKILREYKVSDDKTEKSALLKHQIVHMGK  
SYDYNENGSNFSKSHLTQLRRAHTGEKTFECGECGTFWEKSNLTQHQRTHTEKPYECTECGAFQCK  
PHLTNHQRTHTEKPYECKQCGKTFVCVSNLTHQRTHTEKPYECNACGKSFCHRSALTVHQRTHTEK  
PFICNECGKSFCVKSNIIVHQRTHTEKPYKNECGKTFCEKSALTKHQRTHTEKPYECNACGKTSQR  
SVLTKHQRIHTRVKALSTS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

## Cloning Scheme:



**ACCN:** NM\_021045

**ORF Size:** 1737 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:**

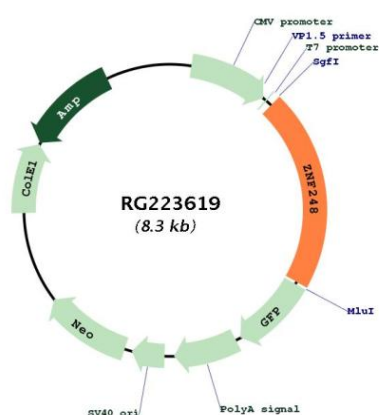
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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\\_021045.2](#), [NP\\_066383.1](#)

|                   |                                                                               |
|-------------------|-------------------------------------------------------------------------------|
| RefSeq Size:      | 5191 bp                                                                       |
| RefSeq ORF:       | 1740 bp                                                                       |
| Locus ID:         | 57209                                                                         |
| UniProt ID:       | <a href="#">Q8NDW4</a>                                                        |
| Cytogenetics:     | 10p11.21                                                                      |
| Protein Families: | Transcription Factors                                                         |
| Gene Summary:     | May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function] |

### Product images:



Circular map for RG223619