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# Product datasheet for RG200209

## ZNF274 (NM_016324) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | ZNF274 (NM_016324) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | ZNF274 |
| **Synonyms:** | HFB101; ZF2; ZKSCAN19; ZSCAN51 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

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**ORF Nucleotide Sequence:**

>RG200209 representing NM_016324
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTCCAGGCTTCCGACGGCCTGGTCCTGTGAACCAGTGACCTTTGAAGATGTAACACTGGGTTTTA
CCCCGGAAGAGTGGGGACTGCTGGACCTCAAACAGAAGTCCCTGTACAGGGAAGTGATGCTGGAGAACTA
CAGGAACCTGGTCTCAGTGGAACATCAGCTTTCCAAACCAGATGTGGTATCTCAGTTAGAGGAGGCAGAA
GATTTCTGGCCAGTGGAGAGAGGAATTCCTCAAGACACCATTCCAGAGTATCCTGAGCTCCAGCTGGACC
CTAAATTGGATCCTCTTCCTGCTGAGAGTCCCCTAATGAACATTGAGGTTGTTGAGGTCCTCACACTGAA
CCAGGAGGTGGCTGGTCCCCGGAATGCCCAGATCCAGGCCCTATATGCTGAAGATGGAAGCCTGAGTGCA
GATGCCCCCAGTGAGCAGATCCAACAGCAGGGCAAGCATCCAGGTGACCCTGAGGCCGCGCGCCAGAGGT
TCCGGCAGTTCCGTTATAAGGACATGACAGGTCCCCGGGAGGCCCTGGACCAGCTCCGAGAGCTGTGTCA
CCAGTGGCTACAGCCTAAGGCACGCTCCAAGGAGCAGATCCTGGAGCTGCTGGTGCTGGAGCAGTTCCTA
GGTGCACTGCCTGTGAAGCTCCGGACATGGGTGGAATCGCAGCACCCAGAGAACTGCCAAGAGGTGGTGG
CCCTGGTAGAGGGTGTGACCTGGATGTCTGAGGAGGAAGTACTTCCTGCAGGACAACCTGCCGAGGGCAC
CACCTGCTGCCTCGAGGTCACTGCCCAGCAGGAGGAGAAGCAGGAGGATGCAGCCATCTGCCCAGTGACA
GTGCTCCCTGAGGAGCCAGTGACCTTCCAGGATGTGGCTGTGGACTTCAGCCGGGAGGAGTGGGGGCTGC
TGGGCCCGACACAGAGGACCGAGTACCGCGATGTGATGCTGGAGACCTTTGGGCACCTGGTCTCTGTGGG
GTGGGAGACTACACTGGAAAATAAAGAGTTAGCTCCAAATTCTGACATTCCTGAGGAAGAACCAGCCCCC
AGCCTGAAAGTACAAGAATCCTCAAGGGATTGTGCCTTGTCCTCTACATTAGAAGATACCTTGCAGGGTG
GGGTCCAGGAAGTCCAAGACACAGTGTTGAAGCAGATGGAGTCTGCTCAGGAAAAAGACCTTCCTCAGAA
GAAGCACTTTGACAACCGTGAGTCCCAGGCAAACAGTGGTGCTCTTGACACAAACCAAGTTTCGCTCCAG
AAAATTGACAACCCTGAGTCCCAGGCAAACAGTGGCGCTCTTGACACAAACCAAGTTTTGCTCCACAAAA
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AATTCATCAGAAGAGCTGTGAAAGGCAAAAGGCCAAGGAAGGCAATGGTTGTAGGAAAACCTTCAGTCGG
AGTACTAAACAGATTACGTTTATAAGAATTCACAAGGGGAGCCAAGTTTGCCGATGCAGTGAATGTGGTA
AAATATTCCGGAACCCAAGATACTTTTCTGTGCATAAGAAAATCCATACCGGAGAGAGGCCCTATGTGTG
TCAAGACTGTGGGAAAGGATTTGTTCAGAGCTCTTCCCTCACACAGCATCAGAGAGTTCATTCTGGAGAG
AGACCATTTGAATGTCAGGAGTGTGGGAGGACCTTCAATGATCGCTCAGCCATCTCCCAGCACCTGAGGA
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CAGACATCAGAGGACTCACACCGGGGAGCGCCCATATGCATGCAACAAATGTGGAAAGGCCTTCACCCAG
AGCTCACACCTTATTGGGCACCAGAGAACCCACAATAGGACAAAGCGAAAGAAGAAACAGCCTACCTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

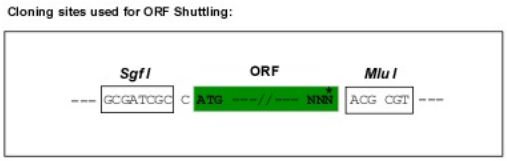
>RG200209 representing NM_016324
Red=Cloning site Green=Tags(s)

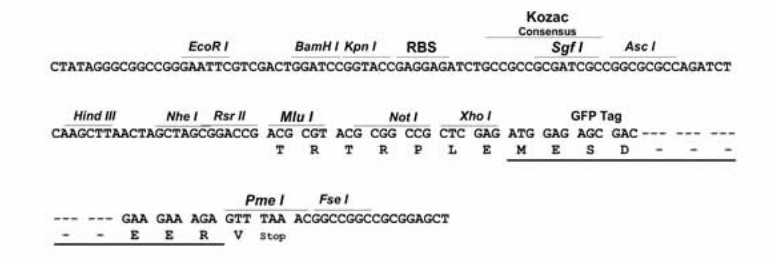
MASRLPTAWSCEPVTFEDVTLGFTPEEWGLLDLKQKSLYREVMLENYRNLVSVEHQLSKPDVVSQLEEAE
DFWPVERGIPQDTIPEYPELQLDPKLDPLPAESPLMNIEVVEVLTLNQEVAGPRNAQIQALYAEDGSLSA
DAPSEQIQQQGKHPGDPEAARQRFRQFRYKDMTGPREALDQLRELCHQWLQPKARSKEQILELLVLEQFL
GALPVKLRTWVESQHPENCQEVVALVEGVTWMSEEEVLPAGQPAEGTTCCLEVTAQQEEKQEDAAICPVT
VLPEEPVTFQDVAVDFSREEWGLLGPTQRTEYRDVMLETFGHLVSVGWETTLENKELAPNSDIPEEEPAP
SLKVQESSRDCALSSTLEDTLQGGVQEVQDTVLKQMESAQEKDLPQKKHFDNRESQANSGALDTNQVSLQ
KIDNPESQANSGALDTNQVLLHKIPPRKRLRKRDSQVKSMKHNSRVKIHQKSCERQKAKEGNGCRKTFSR
STKQITFIRIHKGSQVCRCSECGKIFRNPRYFSVHKKIHTGERPYVCQDCGKGFVQSSSLTQHQRVHSGE
RPFECQECGRTFNDRSAISQHLRTHTGAKPYKCQDCGKAFRQSSHLIRHQRTHTGERPYACNKCGKAFTQ
SSHLIGHQRTHNRTKRKKKQPTS

TRTRPLE - GFP Tag - V

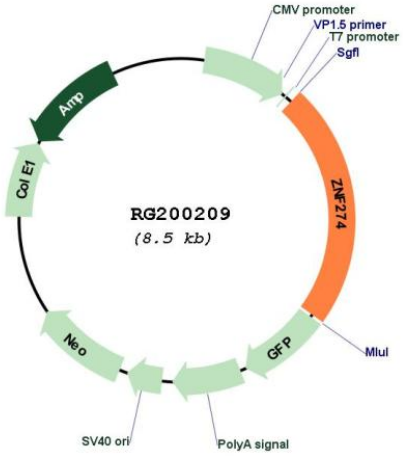
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**Plasmid Map:**




**ACCN:** NM_016324

**ORF Size:** 1644 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_016324.2, NP_057408.2 |
| **RefSeq Size:** | 2538 bp |
| **RefSeq ORF:** | 1647 bp |
| **Locus ID:** | 10782 |
| **UniProt ID:** | Q96GC6 |
| **Cytogenetics:** | 19q13.43 |
| **Domains:** | KRAB, LER, zf-C2H2 |
| **Protein Families:** | Transcription Factors |
| **Protein Pathways:** | Neurotrophin signaling pathway |
| **Gene Summary:** | This gene encodes a zinc finger protein containing five C2H2-type zinc finger domains, one or two Kruppel-associated box A (KRAB A) domains, and a leucine-rich domain. The encoded protein has been suggested to be a transcriptional repressor. It localizes predominantly to the nucleolus. Alternatively spliced transcript variants encoding different isoforms exist. These variants utilize alternative polyadenylation signals. [provided by RefSeq, Jul 2008] |