

Product datasheet for **RG220358**

Z DNA binding protein (ZBP1) (NM_030776) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Z DNA binding protein (ZBP1) (NM_030776) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Z DNA binding protein |
| Synonyms: | C20orf183; DAI; DLM-1; DLM1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG220358 representing NM_030776 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGGCTCCTGCTGACCCGGGCAGAGAAGGCCACCTTGAACAAAGAATCCTGCAGGTGCTGACAG
AGGCTGGCTCCCCGGTGAAACTTGCCAGCTGGTGAAGGAATGCCAAGCACCCAAGGGGAGCTCAACCA
AGTCTCTACCGAATGAAAAAGGAGTTGAAAGTCTCCCTCACATCCCCTGCCACCTGGTCTTGGGCGG
ACTGATCCTGAAGGCGAGGGTCTGCAGAGCTGGCCTTGTCCAGCCCTGCCAAGAGGCCCAAGCAACATG
CAGCTACAATTCCAGAGACCCCTGGCCCTCAGTTCAGCCAACAACGGGAGGAAGACATCTACAGGTTTCT
CAAAGACAATGGTCCCCAGAGGGCCCTGGTCATCGCCCAAGCACTGGGAATGAGGACAGCAAAAGATGTG
AACCGAGACTTGTACAGGATGAAGAGCAGGCACCTTCTGGACATGGATGAGCAGTCCAAAGCATGGACGA
TTTACCGCCAGAAAGATTCTGGAAGAAGAGCAAAGTCAGCCTCAATTATTTACCAGCACAAATCCAATCAA
CATGATCTGCCAGAATGGACCCAACAGCTGGATTTCCATTGCAAACCTCCGAAGCCATCCAGATTGGACAC
GGGAACATCATTACAAGACAGACAGTCTCCAGGGAGGACGGTTCGCGCGTCCACGCCACCTCCCTTCAA
TGGCACCAGGTGATTCTCAACTTGGGGGACCCTAGTTGATCCCTGGGGGCCCAAGGACATCCACATGGA
GCGGTCCATACTGAGACGGGTGCAGCTGGGACACAGCAATGAGATGAGGCTCCACGGCGTCCCGTCCGAG
GGCCCTGCCACATCCCCCTGGCAGCCCCCAGTCTCTGCCACTGCTGCCGGCCAGAAGCTTCGTTTG
AAGCAAGAATTCCAGTCCAGGAACTCACCTGAGGGGGAAGCCGCCAGAGAATCCACATGAAATCGTG
CTTTCTCGAGGACGCCACCATCGGCAACAGCAAAAAATGTCTATCAGCCAGGGGTGGTGCCAGGA
GGAGTCGAGGGTCTGGAGAGGGGGAGCCAGGGGAGGACGCAGGTCGTCGTCGCGCAGACACACAATCCA
GAAGTCACTTTCTCGAGACATTGGTCAGCCCATCACTCCAGCCACTCGAAGCTCACCCCAAGCTGGA
AACTATGACTCTTGAACAGGAGTCACAAAGCTCAGAAGGCAGCCACTATGTGGATGAAGCCTCACAC
GAGGGGAGCTGGTGGGAGGTGGGATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220358 representing NM_030776
Red=Cloning site Green=Tags(s)

MAQAPADPGREGHLEQRILQVL TEAGSPVKLAQLVKECQAPKRELNQVL YRMKKEKLVSL TSPATWCLGG
 TDPEGEGPAELALSSPAKRPPQHAATIPETPGPQFSQREEDIYRFLKDNQPQRALVIAQALGMRTAKDV
 NRDLYRMKSRHLLDMDEQSKAWTIYRPEDSGRRRAKSASIIYQHNPINMICQNGPNSWISIANSEAIQIGH
 GNIITRQTVSREDGSAGPRHLPSMAPGDSSTWGTLVDPWGPQDIHMERSILRRVQLGHSNEMRLHGVPSE
 GPAHIPPSPVVSATAAGPEASFEARIPSPGTHPEGEAAQR IHMKSCFLEDATIGNSNKMSISPGVAGPG
 GVAGSGEGEPGEDAGRRPADTQSRSHFPRDIGQPITPSHKLTPKLETMTLGNRSHKAAEGSHYVDEASH
 EGSWWGGGI

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_030776

ORF Size: 1287 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_030776.1](#), [NP_110403.1](#)

RefSeq Size: 2224 bp

RefSeq ORF: 1290 bp

Locus ID: 81030

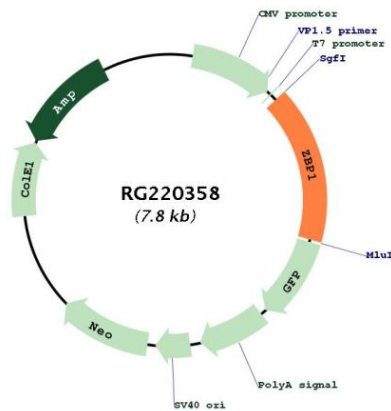
UniProt ID: [Q9H171](#)

Cytogenetics: 20q13.31

Protein Pathways: Cytosolic DNA-sensing pathway

Gene Summary: This gene encodes a Z-DNA binding protein. The encoded protein plays a role in the innate immune response by binding to foreign DNA and inducing type-I interferon production. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RG220358