

## Product datasheet for **RG228180**

### Z DNA binding protein (ZBP1) (NM\_001160419) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Z DNA binding protein (ZBP1) (NM_001160419) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZBP1
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:	>RG228180 representing NM_001160419 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAGGCTCCTGCTGACCCGGGCAGAGAAGGCCACCTTGAACAAAGAATCCTGCAGGTGCTGACAG  
AGGCTGGCTCCCCGGTGAACTTGCCAGCTGGTGAAGGAATGCCAAGCACCCAAGAGGGAGCTCAACCA  
AGTCTCTACCGAATGAAAAAGGAGTTGAAAGTCTCCCTCACATCCCCTGCCACCTGGTGTGGGCGGG  
ACTGATCCTGAAGGCGAGGGTCTGCAGAGCTGGCCTTGTCCAGCCCTGCCGAGAGGCCCCAGCAACATG  
CAGCTACAATTCCAGAGACCCCTGGCCCTCAGTTCAGCCAACAACGGGAGGAAGACATCTACAGGTTTCT  
CAAAGACAATGGTCCCCAGAGGGCCCTGGTCATCGCCCAAGCACTGGGAATGAGGACAGCAAAAGATGTG  
AACCGAGACTTGTACAGGATGAAGAGCAGGCACCTTCTGGACATGGATGAGCAGTCCAAAGCATGGACGA  
TTTACCGCCCAGAAGATTCTGGAAGAAGAGCAAAGTCAGCCTCAATTATTTACCAGCACAATCCAATCAA  
CATGATCTGCCAGAATGGACCCAACAGCTGGATTTCCATTGCAAACCTCCGAAGCCATCCAGATTGGACAC  
GGGAACATCATTACAAGACAGACAGTCTCCAGGGAGGACGGTAAGTCACCCAAGAGAGCCAGGGGAGGGG  
ACCTCGGTGGGGAGCCACCGGATCCTCTGGGTGGGGGCAAAGGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG228180 representing NM\_001160419  
Red=Cloning site Green=Tags(s)

MAQAPADPGREGHLEQRILQVL TEAGSPVKLAQLVKECQAPKRELNQVL YRMKKELKVSL TSPATWCLGG  
 TDPEGEPALALSSPAERPQQHAATIPETPGPQFSQREEDIYRFLKDNQPQRALVIAQALGMRTAKDV  
 NRDLYRMKSRHLLDMDEQSKAWTIYRPEDSGRRAKSASIIYQHNPINMICQNGPNSWISIANSEAIQIGH  
 GNIITRQTVSREDGKSPKRAQGGDLGGEPDPLGGGKG

TRTRPLE - GFP Tag - V

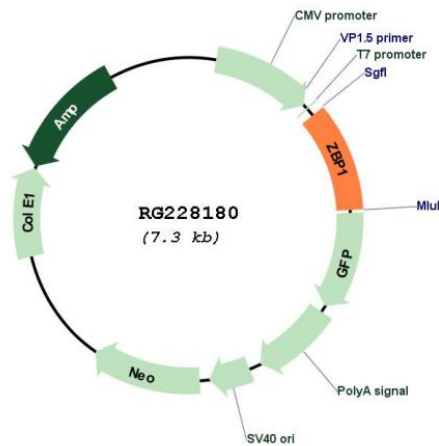
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001160419

**ORF Size:** 744 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001160419.3</a>
<b>RefSeq Size:</b>	1255 bp
<b>RefSeq ORF:</b>	747 bp
<b>Locus ID:</b>	81030
<b>UniProt ID:</b>	<a href="#">Q9H171</a>
<b>Cytogenetics:</b>	20q13.31
<b>Protein Pathways:</b>	Cytosolic DNA-sensing pathway
<b>Gene Summary:</b>	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]