

## Product datasheet for **RG239081**

### ZNF189 (NM\_001278232) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF189 (NM_001278232) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF189
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG239081 representing NM\_001278232.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCTTCCCGAGCCCCCGCCGGAGTCGAAGGAGTGGGATTATCTGGACCCAGCTCAGAGAAGCCTG
TATAAAGATGTCATGATGGAGAATTATGGAAACCTGGTCTCACTGGATGTTTTGAACAGAGATAAGGAT
GAGGAGCCAACCTGTAACAAGAGATTGAAGAAATTGAGGAAGAAGTGAACACAGGGTGAATAGTT
ACAAGAATCAAAAAGTGAATTGACCAGGATCCTATGGGTAGAGAAACATTTGAACCTGTTGGTAGGTTA
GATAAACAAAGAGGGATCTTCTATGGGAAATACCAAGGGAATCTTTGACCCAGGAACAGAGAATGTTT
AGAGAAAAACTAACATTATCCGTAAGACCAAACTCAGAAGAGAAATGCCATAAATGTGAAGAATGT
GGAAAGGGTTTTGTCCGCAAGGCCATTTCAACATCAAAGGGTCCATACTGGTGAGAAACCTTTT
CAGTGAATGAATGTGGAAAAGTTTTAGTCGCAGTTCATTTGTTATTGAACATCAGAGAATTCACACT
GGGAAAAGGCCATGAGTGAATTAAGTGTGAAAAACCTTTAGTGTGAGCTCAACCTTATTAGACAT
CAGAGAATCCACTGGAGAAAGACCCTATCAGTGAATCAGTGTAAACAGAGCTTCAGCCAGAGAAGG
AGCCTTGTAAACATCAAAGGATTCATACAGGTGAGAAACCCATAAATGTAGTACTGTGGAAAAGCC
TTCAGTTGGAATCACACCTTATTGAGCATCAAAGAACTCACACTGGTGAGAAAACCTTACTGTACC
AAATGTAAGAAGACTTTAGTCGAAATTCATTGCTTGTGAGCATCAAAGAATTCACACTGGGAAAAGA
CCCCATAAATGTGGTGAATGTGGAAAAGCCTTTGATTAAGCACATACCTTATACAAACACAAAAAATT
CACACTGGCGAGAAGCCTTTTCTTTGATTGAGTGTGGAAAAAGTTTCAGTCGGAGCTCATTCTTATT
GAACATCAGAGGATCCATACTGGTGAAGACCTTATCAGTGAAGAGTGTGGAAAAGTTTCAGTCAG
CTTTGCAACCTTACTCGTCATCAGAGAATTCACACAGGAGACAAGCCCCATAAATGTGAGGAATGTGGA
AAAGCCTTTAGTAGAAGCTCAGTCTTATTGAGCATCAGAGAATTCACACCAGGGAGAAGACTTATCCA
TACAATGAAACTAAGGAAAGTTTTGATCCAATTCAGTCTTGTATACAGCAGGAAGTCTACCTAAG
GAGAAATCTTATAAATGTGATGAATGTGGAAAACCTTTAGTGTAGTGCTCATCTTGTACAACATCAA
AGAATCCACTGGTGAAGGCCCTATCTATGTACTGTCTGTGGAAAAGCTTCAGCCGGAGCTCATTT
CTTATTGAACATCAGAGAATCCACTGGTGGAGACCTTATCTGTGCAGACAGTGTGGAAAAGCTTT
AGTCAGCTTTGTAATCTTATTCGACATCAGGGTGTTCACACAGGTAATAAACCCATAAATGTGATGAA
TGTGGAAAAGCCTTAGCCGGAAGTTCAGTCAACAGCGCAGTCTTGTCAACCATCAGAAGATCCAT
TATAAGTGTGAGAAGTGCACAAAAGTTTCAGTCAACAGCGCAGTCTTGTCAACCATCAGAAGATCCAT
GCAGAGGTGAAAACCAAGAAACCCATGAATGTGACGCTTGTGGTGAAGCCTTTAATTGCCGATTTCT
CTTATTCAGCATCAGAAATTCACACAGCATGGATGCAA
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG239081  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MASPPPPESKEWDYLDPAQRSLYKDVMMENYGNLVSLDVLNRDKDEEPTVKQIEIEIEEVEPQGVIV
TRIKSEIDQDPMGRETFELVGRLDKQRGIFLWEIPRESLTQEQRMFRENTNIIKRPNSEEKCHKCEEC
GKGFVRKAHF IQHQRVHTGEKPFQNECGKSFSSSFVIEHQRIHTGERPYECNYCGKTFVSVSTLIRH
QRHTGERPYQCNQCKQSF SQRSLVKHQRIHTGEKPHKCSDCGKAF SWKSHLIEHQRTHTGEKPYHCT
KCKKFSRNSLL VEHQRIHTGERPHKCGECKAFRLSTYLIQHQKIHTGEKPFLEICGKSFSSSFLI
EHQRIHTGERPYQCKECKSFSQLCNL TRHQRIHTGDKPHKCEECGKAFSRSSGLIQHQRHTREKTY
YNETKESFDPNCSLVIQQEVYPKEKSYKCECGKTF SVSAHLVQHQRHTGEKPYLCTVCGKSFSSSF
LIEHQRIHTGERPYL CRQCGKSFSQLCNLIRHQVHTGNKPHKCEECGKAFSRNSGLIQHQRHTGEK
YKCEKDKSFSQRSLVNHQKIHAEVKTQETHECDACGEAFNCRISLIQHQLHTAWMQ
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHGTYPSTYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSTRFSLRDGGYSSVVD SHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

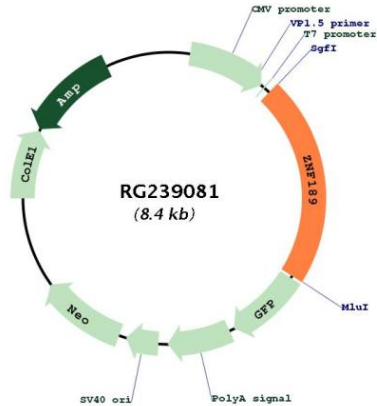
Sgfl-Mlul

**Cloning Scheme:**


- ACCN:** NM\_001278232
- ORF Size:** 1833 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).
- RefSeq:** [NM\\_001278232.2](#)
- RefSeq Size:** 3168 bp
- RefSeq ORF:** 1836 bp
- Locus ID:** 7743
- UniProt ID:** [O75820](#)
- Cytogenetics:** 9q31.1
- Protein Families:** Transcription Factors
- MW:** 71.7 kDa

**Gene Summary:**

Kruppel-like zinc finger proteins such as ZNF189 contain a conserved stretch of 7 amino acids that connects a variable number of DNA-binding zinc finger repeats of the cys(2)his(2) (C2H2) type (summarized by Odeberg et al., 1998 [PubMed 9653648]). Approximately 30% of human Kruppel-like zinc finger proteins contain an N-terminal Kruppel-associated box (KRAB) domain. The KRAB domain consists of approximately 75 amino acids that may be subdivided into an A box, which is present in every KRAB domain and is essential for transcriptional repression, and a B box, which is not always present.[supplied by OMIM, May 2010]

**Product images:**


Circular map for RG239081