

## Product datasheet for **RG212298**

### Znf206 (ZSCAN10) (NM\_032805) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Znf206 (ZSCAN10) (NM_032805) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZSCAN10
Synonyms:	ZFP206; ZNF206
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG212298 representing NM\_032805  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCCACGGGCGTCCCTGAGCCGGCTCCGGGAGCTCTGCGGCCACTGGCTGCGGCCGGCTCTGCACA  
 CCAAGAAACAGATCCTGGAGCTGCTGGTCTGGAGCAGTTCTGAGTGTGCTGCCTCCGCACCTCCTGGG  
 CCGCCTGCAGGGGCGAGCCGCTCAGGGATGGGGAGGAGGTGGTGTGCTGCTCGAGGGCATCCACCGGGAG  
 CCCAGCCACGCGGGGCCGCTGGATTTTAGTTGTAATGCTGGCAAGAGTTGTCCCGTGCAGACGTACCT  
 TGGAGGAAAAGGGGTGTCTTCCAGGTCCCAGCCACAGCCCCAAGAAGGAATTGCCTGCGGAAGAGCC  
 TTCAGTGTGGGCCATCGGATGAGCCTCCCCGACCCAGCCAAGGGCTGCCAGCCTGTGAGCCGGGA  
 CAGTGGAGGCTTCCCCAAGTTCAAAGCAGCCGCTGAGCCGGGGCCCCAGAAGACATCCAGGCCCTGC  
 AAGAAAGCAGTCCCAGGGCCCCCACCATGGCCAGAGGAGATTCCCGAGATCAGGAGCTGGCGGCTGT  
 GCTGGAGTGCCTGACCTTTGAGGATGTGCCAGAGAATAAGGCGTGGCCTGCACACCCCTGGGATTCGGA  
 AGCAGAACCCAGACAAGGAGGAATTTAAACAAGAAGAGCCAAAGGGGCTGCCTGGCCACTCCCATCT  
 TAGCAGAGTCCCAGGCAGATAGTCTGGGGTGCAGGGAGAGCCTTGCGCCAGTCCGTCGGACGGGGCGC  
 TGGCGCTAGCGGCCCTGGCGAAGATGGTCCCTTCTTGGCAGCAGTGAATTTTGGAGGTCAAAGTGGCT  
 GAGGGCGTCCCAGGCCAATCCGGAGTTGAGTTCATCTGCGCGGACTGCGGGGTGAGCTTCCCAGCAG  
 TGTCTCGCTGAAGGCGCACCAGCTGCGCTCGCACCCGGCTGGGCGCTCCTTCTGTGCCTTTGTGCGG  
 GAAGAGCTTGGCCGAGCTCCATTCTCAAGCTGCACATGCGCACTCACACGGACGAGCGGCCGACGCC  
 TGCCACCTGTGCGGCCACCGCTTCCGCCAGAGCTCGCACCTGAGCAAGCACCTGCTGACCCACTCCTCCG  
 AACCCGCTTCTGTGCGCAGAGTGCAGCCGGCTTCCAGCGCCGCGCCAGCCTTGTGACAGCACCTGCT  
 GGCGCACGCCCAGGACCAGAAGCCGCCCTGCGCTCCTGAGAGTAAGGCCGAAGCGCCGCTGACCGAT  
 GTCTGTGCTCCCACTGCGGCCAGAGCTTCCAGCGCCGCTCCAGCCTCAAGCGCCACTGCGGATCCACG  
 CCAGGGACAAGGACCGCCGGTCTCCGAAGGCTCCGGCAGCCGCCGCGGGACTCCGACCGGAGGCCCTT  
 CGTGTGCAGGACTGCGGCAAGGCTTCCGGCGCAGGAGCACCTGGTGGCCACCAGGAGGTGCACACG  
 GGGAGCGGCCCTTCTCCTGCCAGGCTTGGCGCCGAGCTTACGCAGAGCTCGCAGCTGGTACGCCACC  
 AACGGGTGCACACGGGCGAGAAGCCCTACGCCTGTCCGAGTGCAGGGAAGCGCTTGTGCGCCGGGCCAG  
 CCTTGCCCGCCACTGCTGACCCACGGTGGCCCTCGGCCACCCTGCACCCAGTGCAGGGAAGAGTTTC  
 GGGCAGACCCAGGATCTGGCCCGCCACCAGCGCAGCCACAGGGCGAGAAGCCCTGCCGCTGCAGCGAGT  
 GCGGTGAGGGCTTCAGCCAGAGCGCCACTGGCGCGCCACCAGCGCATCCACACAGGGGAGAAGCCCCA  
 CGCCTGCGACACTGCGGCCACCGTTTCCGCAATAGCTCCAACCTGGCCCGCCATCGCCGAGCCACACG  
 GGGAGCGGCCCTACAGCTGTGACAGCTGCGGTGCGAGCTTCCGGCGCAACGCGCATCTGCGCGGCCACC  
 TGGCTACCCATGCGGAGCCCGGGCAGGAGCAGGCCGAGCCCCGAGGAGTGCCTGGAGTGCAGGGAAGAG  
 CTTAGCCGAGCTGCAATCTGCTGCGACACTGCTGGTGCACACGGGCGCCAGGCCCTACTCCTGCACG  
 CAGTGTGGCCGAGCTTACGCCCAACTCCACCTGCTGCGCCACTGCGCACCCACGCCCGGAGACGC  
 TGTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG212298 representing NM\_032805  
Red=Cloning site Green=Tags(s)

MGPRASLSRLRELCGHWLRPALHTKKQILELLVLEQFLSVLPPHLLGRLQGQPLRDGEEVLLLEGIHRE  
 PSHAGPLDFSCNAGKSCPRADVLEEKGCASQVPSHSPKKELP AE E P S V L G P S D E P P R P Q P R A A Q P A E P G  
 QWRLPPSSKQPLSPGPQKTFQALQESSPQGPSPWPEESSRDQELAAVLECLTFEDVPENKAWPAHPLGFG  
 SRTPDKKEEFKQEEPKGAAWPTPI LAESQADSPGVGPECAQSLGRGAAASGPGEDGSLLSSEIILEVKVA  
 EGVPEPNPELQFICADCGVSFPQLSRLKAHQLRSHPAGRSFLCLCGKSFGRSSILKLHMRTHTDERPHA  
 CHLCGHRFRQSSHL SKHLLTHSSEPAFLCAECGRGFQRRASLVQHLLAHAQDQKPPCAPESKAEAPPLTD  
 VLC SHC G Q S F Q R R S S L K R H L R I H A R D K D R R S S E G S G R R R D S D R R P F V C S D C G K A F R R S E H L V A H R R V H T  
 GERPFSCQACGRSFTQSSQLVSHQRVHTGEKPYACPQCGKRFVRRASLARHLLTHGGPRPHHTCQCGKSF  
 GQTQDLARHQRSHTEKPCRCSECGEGFSQSAHLARHQRHTGEKPHACDTCGHRFRNSSLARHRSHT  
 GERPYSCQTCGRSFRRNAHLRRHLATHAEPQEQAEPPQECVCEGKSF SRSCNLLRHLVHTGARPYSC T  
 QCGRSFSRNSHLLRHLRTHARETLY

TRTRPLE - GFP Tag - V

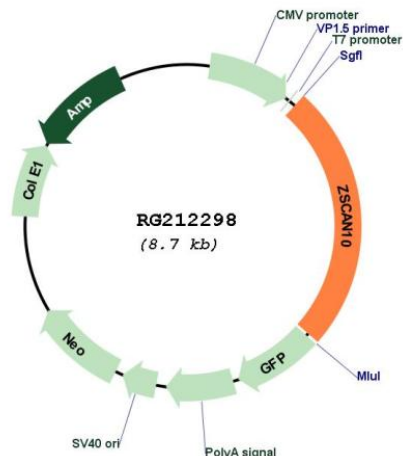
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



## Plasmid Map:



ACCN: NM\_032805

ORF Size: 2175 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\\_032805.1](#), [NP\\_116194.1](#)

RefSeq Size: 2463 bp

RefSeq ORF: 2343 bp

Locus ID: 84891

UniProt ID: [Q96SZ4](#)

Cytogenetics: 16p13.3

Protein Families: ES Cell Differentiation/IPS, Transcription Factors

Gene Summary: Embryonic stem (ES) cell-specific transcription factor required to maintain ES cell pluripotency. Can both activate and /or repress expression of target genes, depending on the context. Specifically binds the 5'-[GA]CGC<sup>N</sup>NGCG[CT]-3' DNA consensus sequence. Regulates expression of POU5F1/OCT4, ZSCAN4 and ALYREF/THOC4.[UniProtKB/Swiss-Prot Function]