

## Product datasheet for **RG230300**

### ZFX (NM\_001178086) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZFX (NM_001178086) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZFX
Synonyms:	ZNF926
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG230300 representing NM\_001178086  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACCATGGACACAGAGTCGGAATTGATCCTTGTAAGTGGATGGCACTTGCCCTGAGGTCATCAAGG  
 TGTACATTTTTAAAGCTGACCCGGAGAAGATGACTTAGGTGGAAGTGTAGACATTGTGGAGAGTGAGCC  
 TGAGAATGATCATGGAGTTGAACTGCTTATCAGAACAGCAGTATTCGTGTTCCAGGAAAAGATTGGTT  
 TATATGACTGTCAATGACTCTCAGCCAGAAGATGAAGATTTAAATGTTGCTGAAATCGCTGACGAAGTTT  
 ATATGGAAGTGTGCTAGGAGAGGAGGATGCTGCAGCAGCAGCGCCGCGCCGTCACGAGCAGCA  
 AATGGATGACAATGAAATCAAAACCTTCATGCCGATTGCATGGGCAGCAGCTTATGGTAATAATTCTGAT  
 GGAATTGAAAACCGAATGGCACTGCAAGTGCCCTCTGCACATAGATGAGTCTGCTGGCCTCGGCAGAC  
 TGGCTAAACAAAACAAAGAAAAGGAGAAGACCTGATCCAGGCAGTACCAACAGCAATAATTATTGG  
 CCCTGATGGACATCCTTTGACTGTCTATCCTTGCATGATTTGTGGGAAGAAGTTTAAAGTCGAGAGTTTT  
 TTGAAAAGGCACATGAAAACCATCCCGAACACCTTGCCAAGAAGAAATACCGCTGTACTGACTGTGATT  
 ACACTACCAACAAGAAGATAAGTTTACACAACCACCTGGAGAGCCACAAGCTGACCAGCAAGGCAGAGAA  
 GGCCATTGAATGCGATGAGTGTGGGAAGCATTTCTCTCATGCAGGGGCTTTGTTTACTCACAAAATGGTG  
 CATAAGGAAAAAGGAGCCAACAAAATGCACAAGTGTAAATTTCTGTGAATACGAGACAGCTGAACAAGGGT  
 TATTGAATCGCCACCTCTTGGCAGTCCACAGCAAGAAGTTCCTCATATTTGTGTGGAGTGTGGTAAGGG  
 TTTTCGTCACCCGTCAGAGCTCAAAAAGCAGATGAGAATCCATACTGGGGAGAAGCCGTACCAATGCCAG  
 TACTGCGAATATAGGTCGCAGACTCTTCTAAGTGTGAAAACGCATGTCAAACTAAGCATAGTAAGAGA  
 TGCCATTCAAGTGTGACATTTGTCTTCTGACTTTCTCGGATACCAAGAGGTGCAGCAACATGCTCTTAT  
 CCACCAAGAAAAGCAAAACACACCAGTGTTCATTGCGACCACAAGAGTTCGAAGTCAAGTGAATTTGAAA  
 CGACACATAATTTAGTTACACGAAAGACTACCCCATAAAGTGTGACATGTGTGATAAAGGCTTTTACAG  
 GCCTTCAGAAGTCAAGAAACACGTGGCTGCCACAAGGGCAAAAAATGCACCAGTGTAGACATTTGTGA  
 CTTAAGATTGCAGATCCATTTGTTCTAAGTCGCCATATTTCTCTCAGTTCACACAAGGATCTTCCATTT  
 AGGTGCAAGAGATGTAGAAAGGGATTTAGGCAACAGAGTGAAGTAAAAAGCATATGAAGACACACAGTG  
 GCAGGAAAGTGTATCAGTGTGAGTACTGTGAGTATAGCACTACAGATGCCTCAGGCTTTAAACGGCACGT  
 TATTTCCATTACACGAAAGACTATCCTCACCGGTGTGAGTACTGCAAGAAAGGCTTCGGAAGACCTTCA  
 GAAAAGAACAGCACATAATGCGACATCATAAAGAAGTTGGCCTGCC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG230300 representing NM\_001178086  
 Red=Cloning site Green=Tags(s)

MTMTESEIDPCKVDGTCPEVIKVIYIFKADPGEDDLGGTVDIVSEPENDHGVELLDQNSSIRVPREKMY  
 YMTVNDSQPEDEDLNVAEIADEVYMEVIVGEEDAAAAAAAAVHEQQMDDNEIKTFMPIAWAAAYGNNSD  
 GIENRNGTASALLHIDESAGLGRKAKQPKRRRPPDSRQYQTAAIIIGPDGHPLTVYPCMICGKFKSRGF  
 LKRHMKNHPEHLAKKRYRCTDICYTTNKKISLHNHLESHKLTSAEKAIECDECGKHFHSHAGALFTHKMV  
 HKEKGANKMHKCKFCEYETAEQLLNRHLLAVHSKNFPHICVECGKGFHRPSELKHHMIRHTGEKPYQCQ  
 YCEYRSADSSNLKTHVTKHSEKEMPFKCDICLLTFSDTKEVQQHALIHQESKTHQCLHCDHKSSNSDLK  
 RHIISVHTKDYPHKCDMCDKGFHRPSELKHHVAHKGKMMHQCRHCDFKIADPFVLSRHILSVHTKDLPL  
 RCKRCKRQSELKHHMKTSHGRKVIYQCEYCEYSTTDASGFKRHVISIHTKDYPHRCEYCKKGFRRPS  
 EKNQHIMRHHKEVGLP

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001178086

**ORF Size:** 1728 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\\_001178086.1](#), [NP\\_001171557.1](#)

**RefSeq Size:** 6801 bp

**RefSeq ORF:** 1731 bp

**Locus ID:** 7543

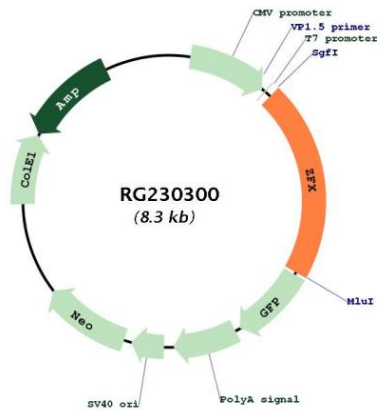
**UniProt ID:** [P17010](#)

**Cytogenetics:** Xp22.11

**Protein Families:** Transcription Factors

**Gene Summary:** This gene on the X chromosome is structurally similar to a related gene on the Y chromosome. It encodes a member of the krueppel C2H2-type zinc-finger protein family. The full-length protein contains an acidic transcriptional activation domain (AD), a nuclear localization sequence (NLS) and a DNA binding domain (DBD) consisting of 13 C2H2-type zinc fingers. Studies in mouse embryonic and adult hematopoietic stem cells showed that this gene was required as a transcriptional regulator for self-renewal of both stem cell types, but it was dispensable for growth and differentiation of their progeny. Multiple alternatively spliced transcript variants encoding different isoforms have been identified, but the full-length nature of some variants has not been determined. [provided by RefSeq, May 2010]

**Product images:**



Circular map for RG230300