

## Product datasheet for **RG203925**

### ZUP1 (NM\_145062) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZUP1 (NM_145062) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZUP1
Synonyms:	C6orf113; DUB; ZUFSP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG203925 representing NM\_145062  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTTTCTGTAATATTTGTGGTGAACAGTAACCTCAGAACCAGACATGAAAGCTCACCTAATTGTTCC  
 ACATGGAAAGTGAAATTATATGTCCATTTTGAAGTTGTGAGGTGTGAATTATGATGAAATGTGTTTTCA  
 TATCGAAACAGCTCATTTTGAGCAGAATACACTTGAAAGAACTTTGAGAGGATAAATACAGTACAATAT  
 GGAAGTTTCAAGATAACAAGAAAGACAACACCCTACAGTGTGGAATGGAAGTTAATCAAGTATTCTTTCAG  
 GTTGTGCATCTAATCATCAAAAAATTCAGCTCAAAACCTGACTAAAGATAGTACTTTAAAAATGAAGG  
 CTTCTATTAGAGAACTTAAGTGAATCTAGAAAATTCCTGAAAAGTAGGGAAAAACAGTCCAGCCTGACC  
 GAAATAAAGGATCTGTTTATGAAACAACATACAGTCTCCTGAATGTCCATTCTGTGAAAAATAGAGG  
 AGCACAGTGAAGATATGGAAGTCAATGTGAAAACAAGCATGCCAATCTTTTAGACATTCATTGGAAGA  
 CTGTGATCAACCACTCTATGATTGTCTATGTGTGGGCTCATATGTACAAATTACCATATCTTTCAGGAA  
 CATGTTGACTTGCAATTTGGAAGAAAACAGCTTTCAGCAAGGCATGGATAGAGTCCAGTGTCTGGTGATC  
 TACAATTGGCTCACCACTTTCAGCAAGAAGAAGACAGAAAAGAGGAGATCTGAAGAATCAAGACAAGAAAT  
 AGAAGAATTTTCAAGCTGCAGAGACAATATGGTTTAGATAAATCTGGAGGATACAAACAACAACAACTA  
 CGAAATATGGAGATAGAAGTAAATAGGGGAAGAATGCCTCCATCTGAATTTTATAGGAGAAAAGCTGATA  
 TGATGGAATCATTAGCTCTTGGTTTTGACGATGGAAAAACAAAACCTCCGGAATATTGAAGCACTTCA  
 TAGGATTTATCAGAATGCTGCCACAGATGTGAGACGGGTGGCTTTCTCAGTGGTGGATCACTTTTCA  
 TCATCTTTAGGCGACAAAGGTTGGGTTGGTTACAGAAATTTCCAAATGCTACTTTTCACTATTATAC  
 AAAATGATGCTTACAACGATTGCTTAAAAGGTATGTTGATTCCTTGCATTCAAAAATTCATCTATGAT  
 TGAAGATGCATGGAAGGAAGTTTTGATCCTCAGGGGGCCTCAACTTAATAACAGGTTACAGGGAACA  
 AAGGCCTGGATTGGAGCATGTGAAGTATATATACTCCTGACCTCCCTAAGGGTAAAGTGCATATTTGTTG  
 ATTTTCAAAATCAACTGGTCTTTGGGTACACACCCTCGCTATTTGAATGGATATTGAACTATTATTC  
 TTCAGAGGGAGAAGGAGTCCAAAGGTAGTGTGTACATCTAAACCTCCTATCTATCTTTCAGCATCAAGGT  
 CACAGTCAACTGTTATTGGAATTGAAGAGAAAAAACCGAACATTATGCTTACTAATACTTGTCTCTG  
 GATGCTCTTTCGAGAAATGCAGAAATTTAAAGCAAGACATAGAGGCTAGCAGTCTCAAGCAACTTCG  
 GAAATCTATGGGAAATTTAAACATAAGCAATACCAGATATTGGCAGTAGAGGGTCTCTTCTCTAGAG  
 GAGAACTTGCCAGGAGACAAGCTTCTCAAGTCTTTACAGCCGAGAAGATTCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG203925 representing NM\_145062  
 Red=Cloning site Green=Tags(s)

MLSCNICGETVTSEPMKAHLIVHMESEIICPFCKLSGVNYDEMCFHIETAHFEQNTLERNFERINTVQY  
 GTSDNKKDNTLQCGMEVNSSILSGCASNHPKNSAQNLTkdSTLKHegfySenLteSRKfLKSREKQSSLT  
 EIKGSVYETTYSPPECPFCGKIEEHSEDMETHVTKHANLLDIPLEDQDQPLYDCPMGLICTNYHILQE  
 HVDLHLEENSFQQGMDRVQCSGDLQLAHQLQQEEDRKRSEESRQEIEEFQKLQRQYGLDNSGGYKQQQL  
 RNMEIEVNRGRMPPSEFHRRKADMESLALGFDDGKTKTSGIIEALHRYYQNAATDVRVWLVSSVDHFFH  
 SSLGDKGWGCGYRNFQMLLSSLLQNDAYNDCLKGMLIPCIPKIQSMIEDAWKEGFDPPQASQLNNRLQGT  
 KAWIGACEVYIILLTSLRVKCHIVDFHKSTGPLGTHPRLFEWILNYYSSSEGEKSPKVVCTSKPPIYLQHQG  
 HSRTVIGIEEKNRTLCLLILDPGCPSREMQLLKQDIEASSLKQLRKSMGNLKHKQYQILAVEGALSLE  
 EKLARRQASQVFTA EKIP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_145062

**ORF Size:** 1734 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\\_145062.3](#)

**RefSeq Size:** 2197 bp

**RefSeq ORF:** 1737 bp

**Locus ID:** 221302

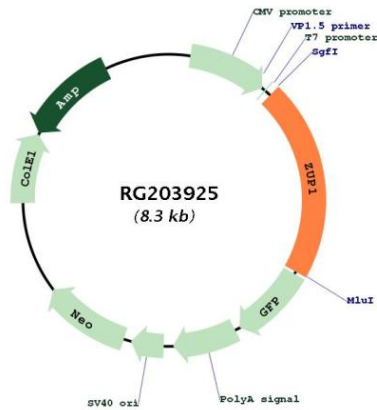
**UniProt ID:** [Q96AP4](#)

**Cytogenetics:** 6q22.1

**Domains:** zf-C2H2

**Gene Summary:** This gene encodes a protein containing zinc finger motifs and a cysteine peptidase domain. The encoded protein functions as a K63-specific de-ubiquitinating enzyme that specifically cleaves long K63-linked polyubiquitin chains in the middle of a chain (i.e. "endo cleavage") rather than by removing the terminal ubiquitin from a chain. This enzyme is thought to be involved in the regulation of DNA repair by cleaving K63-linked ubiquitin chains at repair foci. This protein is related to proteases for the ubiquitin-like modifiers Ufm1 (ubiquitin fold modifier 1) and Atg8/Gabarapl2, but does not have any activity on these modifiers. [provided by RefSeq, Mar 2018]

**Product images:**



Circular map for RG203925