

## Product datasheet for **RG218540**

### ZWINT (NM\_001005413) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ZWINT (NM\_001005413) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** ZWINT  
**Synonyms:** HZwint-1; KNTC2AP; SIP30; ZWINT1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG218540 representing NM\_001005413  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGCAGCGGAGACAGAGGCCGAAGCTGCAGCCCTAGAGGTCCTGGCTGAGGTGGCAGGCATCTTGG  
AACCTGTAGGCCCTGCAGGAGGAGGCAGAACTGCCAGCCAAGATCCTGGTTGAGTTTGTGGTGGACTCTCA  
GAAGAAAGACAAGCTGCTCTGCAGCCAGCTTCAGGTAGCGGATTCCTGCAGAACATCCTGGCTCAGGAG  
GACTGCTAAGGGTCTCGACCCCTTGGCTTCTGAAGACACGAGCCGACAGAAGGCAATTGCAGCTAAGG  
AACAAATGAAAGAGCTGAAGGCCACCTACAGGGAGCACGTAGAGGCCATCAAAATTGGCCTCACCAAGGC  
CCTGACTCAGATGGAGGAAGCCCAGAGGAAACGGACACAACCTCCGGAAGCCTTTGAGCAGCTCCAGGCC  
AAGAAACAAATGGCCATGGAGAAACGCAGAGCAGTCCAGAACCAGTGGCAGCTACAACAGGAGAAGCATC  
TGCAGCATCTGGCGGAGGTTTCTGCAGAGGGTAAGCTGTTGTTCCCTGAGGCTGAGGCTGAGGCAGAGAA  
TCTTCCAGATGATAAACCCAGCAGCCGACTCGACCCAGGAGCAGAGTACAGGAGACACCATGGGGAGA  
GACCCTGGTGTCTTCAAGGCTGTTGGTCTACAACCTGCTGGAGATGTAAATTTGCCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG218540 representing NM\_001005413  
 Red=Cloning site Green=Tags(s)

MEAAETEAEAAALEVLAEVAGILEPVGLQEEAELPAKILVEFVSDSQKDKLLCSQLQVADFLQNILAQE  
 DTAKGLDPLASEDTSRQKATAAKEQWKELKATYREHVEAIKIGLTKALTQMEEAQRKRTLREAFEQLQA  
 KKQMAMEKRRAVQNQWQLQEQEKHLQHLAEVSAEGKLLFPEAEAEENLPDDKPQQPTRPQEQSTGDMGR  
 DPGVSKAVGLQPAGDVNLP

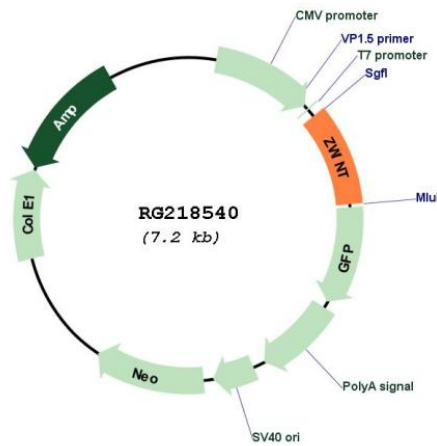
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001005413

**ORF Size:** 690 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_001005413.1</a> , <a href="#">NP_001005413.1</a>
<b>RefSeq Size:</b>	1546 bp
<b>RefSeq ORF:</b>	693 bp
<b>Locus ID:</b>	11130
<b>UniProt ID:</b>	<a href="#">O95229</a>
<b>Cytogenetics:</b>	10q21.1
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	This gene encodes a protein that is clearly involved in kinetochore function although an exact role is not known. It interacts with ZW10, another kinetochore protein, possibly regulating the association between ZW10 and kinetochores. The encoded protein localizes to prophase kinetochores before ZW10 does and it remains detectable on the kinetochore until late anaphase. It has a uniform distribution in the cytoplasm of interphase cells. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]