

#### OriGene Technologies, Inc.

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# Product datasheet for TP310692

### ZWINT (NM\_007057) Human Recombinant Protein

### **Product data:**

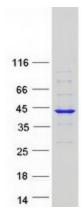
| Description:Recombinant protein of human ZW10 interactor (ZWINT), transcript variant 1, 20 µgSpecies:HumanExpression Hos:HEK293TExpression cDNA<br>Clone or AA<br>Sequence:Red=Cloning site Green=Tags(s)MEAAETEAEAAALEVLAEVAGILEPVGLQEEAELPAKILVEFVVDSQKKDKLLCSQLQVADFLQNILAQE<br>DTAKGLDPLASEDTSRQKAIAAKEQWKELKATVREHVEAKIGLTKALTQMEEAQRKRTQLREAFEQLQA<br>KKQMAMEKRRAVQNQQLQQEKHLQHLAEVSAEVRERKTGTQLEDGVFQKLGNLKQAAEQERDKLQRYQ<br>TFLQLLYTLQKKLLFPEAEAEAENLPDDDRVQPTRPQEQSTGDTMGRDPGVSFKAVGLQPAGDQENKLQRYQ<br>TFLQLLYTLQKKLLFPEAEAEAENLPDDDRVQPTRPQEQSTGDTMGRDPGVSFKAVGLQPAGDVNLPTag:C-Myc/DDKPredicted MW:31.1 kDaConcentration:> 80% as determined by microplate BCA methodPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:Som M Tris-HCI, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by conventional<br>chromatography steps.Note:Store at -80°C.Storage:Store at -80°C.Stability:Stole for 12 months from the date of receipt of the product under proper storage and handling<br>conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 008988Locus ID:11130UniProt ID:095229 | Product Type:    | Recombinant Proteins                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Expression Host:HEK293TExpression cDNA<br>Clone or AA<br>Sequence:>RC210692 protein sequence<br>Red=Cloning site Green=Tags(s)Sequence:WEAAETEAEAAALEVLAEVAGILEPVGLQEEAELPAKILVEFVVDSQKKDKLLCSQLQVADFLQNILAQE<br>DTAKGLDPLASEDTSRQKAIAAKEQWKELKATYREHVEAIKIGLTKALTQMEEAQRKRTQLREAFEQLQA<br>KKQMAMEKRRAVQNQWQLQQEKHLQHLAEVSAEVRERKTGTQQELDGVFQKLGNLKQQAEQERDKLQRYQ<br>TFLQLLYTLQGKLLFPEAEAEAENLPDDKPQQPTRPQEQSTGDTMGRDPGVSFKAVGLQPAGDVNLPTag:C-Myc/DDKPredicted MW:31.1 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by conventional<br>chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience some<br>loss of protein during the filtration process.Storage:Store at -80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and handling<br>conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 008988<br>Locus ID:Locus ID:11130 | Description:     | Recombinant protein of human ZW10 interactor (ZWINT), transcript variant 1, 20 $\mu g$                                                           |
| Expression cDNA<br>Sequence:>RC210692 protein sequence<br>Red=Cloning site Green=Tags(s)Red=Cloning site Green=Tags(s)WEAAETEAEAAALEVLAEVAGILEPVGLQEEAELPAKILVEFVVDSQKKDKLLCSQLQVADFLQNILAQE<br>DTAKGLDPLASEDTSRQKAIAAKEQWKELKATYREHVEAIKIGLTKALTQMEEAQRKRTQLREAFEQLQA<br>KKQMAMEKRRAVQNQWQLQQEKHLQHLAEVSAEVRERKTGTQQELDGVFQKLGNLKQQAEQERDKLQRYQ<br>TFLQLLYTLQGKLLFPEAEAEAENLPDDKPQQPTRPQEQSTGDTMGRDPGVSFKAVGLQPAGDVNLPTag:C-Myc/DDKPredicted MW:31.1 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:0.5 mJ Tris-HCI, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by conventional<br>chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience some<br>loss of protein during the filtration process.Storage:Store at -80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and handling<br>conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 008988<br>Locus ID:Locus ID:11130                 | Species:         | Human                                                                                                                                            |
| Clone or AA<br>Sequence:Red=Cloning site Green=Tags(s)WEAAETEAEAAALEVLAEVAGILEPVGLQEAELPAKILVEFVVDSQKKDKLLCSQLQVADFLQNILAQE<br>DTAKGLDPLASEDTSRQKAIAAKEQWKELKATYREHVEAKIQLTKALTQMEEAQRKRTQLREAFEQUQA<br>KKQMAMEKRRAVQNQVQLQQEKHLQHLAEVSAEVRERKTGTQQELDGVFQKLGNLQRQAEQERDKLQRYQ<br>TFLQLLYTLQGKLLFPEAEAEAENLPDDKPQQPTRPQEQSTGDTMGRDPGVSFKAVGLQPAGDVNLPTag:C-Myc/DDKPredicted MW:31.1 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCI, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by conventional<br>chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience some<br>loss of protein during the filtration process.Storage:Store at -80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and handling<br>conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP_008988<br>Locus ID:Locus ID:11130                                                                                    | Expression Host: | HEK293T                                                                                                                                          |
| MEAAETEAEAAALEVLAEVAGILEPVGLQEEAELPAKILVEFVVDSQKKDKLLCSQLQVADFLQNILAQE<br>DTAKGLDPLASEDTSRQKAIAAKEQWKELKATYREHVEAIKIGLTKALTQMEEAQRKRTQLREAFEQLQA<br>KKQMAMEKRRAVQNQWQLQQEKHLQHLAEVSAEVRERKTGTQQELDGVFQKLGNLKQQAEQERDKLQRYQ<br>FLQLLYTLQGKLLFPEAEAEAENLPDDKPQQPTRPQEQSTGDTMGRDPGVSFKAVGLQPAGDVNLPTRTRPLEQKLISEEDLAANDILDYKDDDDKVTag:C-Myc/DDKPredicted MW:31.1 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by conventional<br>chromatography steps.Note:Storage:Storage:Store at -80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and handling<br>conditions. Avoid repeated freeze-thaw cycles.RefSeq:MP 008988<br>Locus ID:Locus ID:11130                                                                                                                                                                                                                                                         | Clone or AA      |                                                                                                                                                  |
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| Predicted MW:31.1 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by conventional<br>chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience some<br>loss of protein during the filtration process.Storage:Store at -80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and handling<br>conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 008988Locus ID:11130                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  | TRTRPLEQKLISEEDLAANDILDYKDDDDKV                                                                                                                  |
| Concentration:>0.05 µg/µL as determined by microplate BCA methodPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by conventional<br>chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience some<br>loss of protein during the filtration process.Storage:Store at -80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and handling<br>conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 008988Locus ID:11130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Tag:             | C-Myc/DDK                                                                                                                                        |
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| Buffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by conventional<br>chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience some<br>loss of protein during the filtration process.Storage:Store at -80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and handling<br>conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 008988<br>11130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Concentration:   | >0.05 µg/µL as determined by microplate BCA method                                                                                               |
| Preparation:Recombinant protein was captured through anti-DDK affinity column followed by conventional<br>chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience some<br>loss of protein during the filtration process.Storage:Store at -80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and handling<br>conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 008988<br>11130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Purity:          | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                      |
| And the chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.Storage:Store at -80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 008988Locus ID:11130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Buffer:          | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol                                                                                             |
| Ioss of protein during the filtration process.Storage:Store at -80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and handling<br>conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 008988<br>11130Locus ID:11130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Preparation:     |                                                                                                                                                  |
| Stability:Stable for 12 months from the date of receipt of the product under proper storage and handling<br>conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 008988<br>11130Locus ID:11130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Note:            |                                                                                                                                                  |
| conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 008988Locus ID:11130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Storage:         | Store at -80°C.                                                                                                                                  |
| Locus ID: 11130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Stability:       |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RefSeq:          | <u>NP 008988</u>                                                                                                                                 |
| UniProt ID: <u>095229</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Locus ID:        | 11130                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UniProt ID:      | <u>095229</u>                                                                                                                                    |



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|                  | ZWINT (NM_007057) Human Recombinant Protein – TP310692                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RefSeq Size:     | 1687                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Cytogenetics:    | 10q21.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| RefSeq ORF:      | 831                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Synonyms:        | HZwint-1; KNTC2AP; SIP30; ZWINT1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Summary:         | This gene encodes a protein that is clearly involved in kinetochore function although an exact role<br>is not known. It interacts with ZW10, another kinetochore protein, possibly regulating the<br>association between ZW10 and kinetochores. The encoded protein localizes to prophase<br>kinetochores before ZW10 does and it remains detectable on the kinetochore until late anaphase.<br>It has a uniform distribution in the cytoplasm of interphase cells. Alternatively spliced transcript<br>variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] |
| Protein Families | : Druggable Genome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## **Product images:**



Coomassie blue staining of purified ZWINT protein (Cat# TP310692). The protein was produced from HEK293T cells transfected with ZWINT cDNA clone (Cat# [RC210692]) using MegaTran 2.0 (Cat# [TT210002]).

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