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# Product datasheet for RG215123

## CD130 (IL6ST) (NM_002184) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | CD130 (IL6ST) (NM_002184) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | CD130 |
| **Synonyms:** | CD130; CDW130; GP130; HIES4; IL-6RB; sGP130 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |



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**ORF Nucleotide Sequence:**

>RG215123 representing NM_002184
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGACGTTGCAGACTTGGCTAGTGCAAGCCTTGTTTATTTTCCTCACCACTGAATCTACAGGTGAAC
TTCTAGATCCATGTGGTTATATCAGTCCTGAATCTCCAGTTGTACAACTTCATTCTAATTTCACTGCAGT
TTGTGTGCTAAAGGAAAAATGTATGGATTATTTTCATGTAAATGCTAATTACATTGTCTGGAAAACAAAC
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TAGCTTCATTAAATATTCAGCTCACTTGCAACATTCTTACATTCGGACAGCTTGAACAGAATGTTTATGG
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CATATCAATTTTGATCCTGTATATAAAGTGAAGCCCAATCCGCCACATAATTTATCAGTGATCAACTCAG
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ATTTGAAACAGTTGGCATGGAGGCTGCGACTGATGAAGGCATGCCTAAAAGTTACTTACCACAGACTGTA
CGGCAAGGCGGCTACATGCCTCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG215123 representing NM_002184
Red=Cloning site Green=Tags(s)

MLTLQTWLVQALFIFLTTESTGELLDPCGYISPESPVVQLHSNFTAVCVLKEKCMDYFHVNANYIVWKTN
HFTIPKEQYTIINRTASSVTFTDIASLNIQLTCNILTFGQLEQNVYGITIISGLPPEKPKNLSCIVNEGK
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LTTLLGVLFCFNKRDLIKKHIWPNVPDPSKSHIAQWSPHTPPRHNFNSKDQMYSDGNFTDVSVVEIEAND
KKPFPEDLKSLDLFKKEKINTEGHSSGIGGSSCMSSSRPSISSSDENESSQNTSSTVQYSTVVHSGYRHQ
VPSVQVFSRSESTQPLLDSEERPEDLQLVDHVDGGDGILPRQQYFKQNCSQHESSPDISHFERSKQVSSV
NEEDFVRLKQQISDHISQSCGSGQMKMFQEVSAADAFGPGTEGQVERFETVGMEAATDEGMPKSYLPQTV
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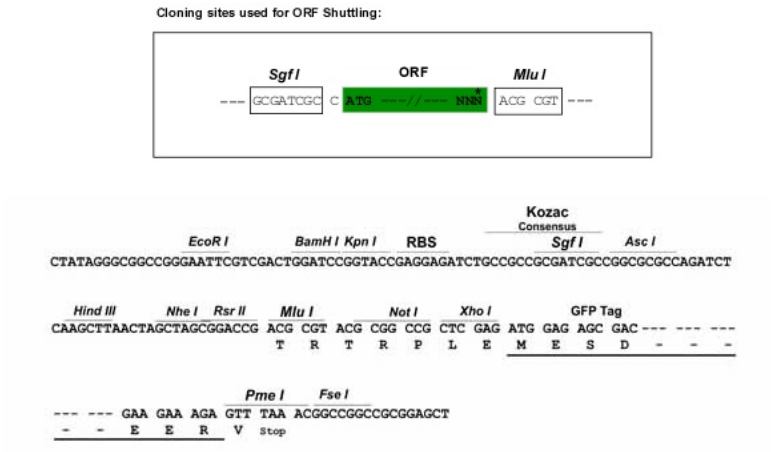
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

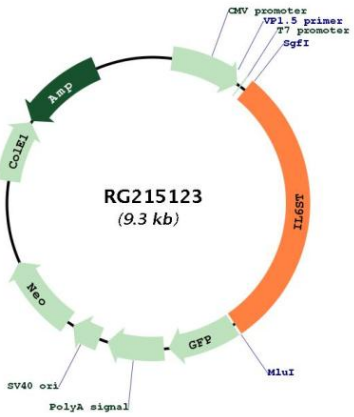
**Cloning Scheme:**




**ACCN:** NM_002184

| | |
|---|---|
| **ORF Size:** | 2754 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_002184.4 |
| **RefSeq Size:** | 3242 bp |
| **RefSeq ORF:** | 2757 bp |
| **Locus ID:** | 3572 |
| **UniProt ID:** | P40189 |
| **Cytogenetics:** | 5q11.2 |
| **Domains:** | FN3 |
| **Protein Families:** | Druggable Genome, Secreted Protein, Transmembrane |
| **Protein Pathways:** | Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway |
| **Gene Summary:** | The protein encoded by this gene is a signal transducer shared by many cytokines, including interleukin 6 (IL6), ciliary neurotrophic factor (CNTF), leukemia inhibitory factor (LIF), and oncostatin M (OSM). This protein functions as a part of the cytokine receptor complex. The activation of this protein is dependent upon the binding of cytokines to their receptors. vIL6, a protein related to IL6 and encoded by the Kaposi sarcoma-associated herpesvirus, can bypass the interleukin 6 receptor (IL6R) and directly activate this protein. Knockout studies in mice suggest that this gene plays a critical role in regulating myocyte apoptosis. Alternatively spliced transcript variants have been described. A related pseudogene has been identified on chromosome 17. [provided by RefSeq, May 2014] |

## Product images:




Circular map for RG215123