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Product datasheet for SC111643

CD130 (IL6ST) (NM_002184) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD130 (IL6ST) (NM_002184) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD130
Synonyms:	CD130; CDW130; GP130; HIES4; IL-6RB; sGP130
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC111643 sequence for NM_002184 edited (data generated by NextGen Sequencing)

ATGTTGACGTTGCAGACTTGGCTAGTGCAAGCCTTGTTTATTTTCCTCACCACTGAATCT
ACAGGTGAACTTCTAGATCCATGTGGTTATATCAGTCCTGAATCTCCAGTTGTACAACTT
CATTCTAATTTCACTGCAGTTTGTGTGCTAAAGGAAAAATGTATGGATTATTTTCATGTA
AATGCTAATTACATTGTCTGGAAAACAAACCATTTTACTATTCCTAAGGAGCAATATACT
ATCATAAACAGAACAGCATCCAGTGTCACCTTTACAGATATAGCTTCATTAAATATTCAG
CTCACTTGCAACATTCTTACATTCGGACAGCTTGAACAGAATGTTTATGGAATCACAATA
ATTTCAGGCTTGCCTCCAGAAAAACCTAAAAATTTGAGTTGCATTGTGAACGAGGGGAAG
AAAATGAGGTGTGAGTGGGATGGTGGAAGGGAAACACACTTGGAGACAAACTTCACTTTA
AAATCTGAATGGGCAACACACAAGTTTGCTGATTGCAAAGCAAAACGTGACACCCCCACC
TCATGCACTGTTGATTATTCTACTGTGTATTTTGTCAACATTGAAGTCTGGGTAGAAGCA
GAGAATGCCCTTGGGAAGGTTACATCAGATCATATCAATTTTGATCCTGTATATAAAGTG
AAGCCCAATCCGCCACATAATTTATCAGTGATCAACTCAGAGGAACTGTCTAGTATCTTA
AAATTGACATGGACCAACCCAAGTATTAAGAGTGTTATAATACTAAAATATAACATTCAA
TATAGGACCAAAGATGCCTCAACTTGGAGCCAGATTCCTCCTGAAGACACAGCATCCACC
CGATCTTCATTCACTGTCCAAGACCTTAAACCTTTTACAGAATATGTGTTTAGGATTCGC
TGTATGAAGGAAGATGGTAAGGGATACTGGAGTGACTGGAGTGAAGAAGCAAGTGGGATC
ACCTATGAAGATAGACCATCTAAAGCACCAAGTTTCTGGTATAAAATAGATCCATCCCAT
ACTCAAGGCTACAGAACTGTACAACTCGTGTGGAAGACATTGCCTCCTTTTGAAGCCAAT
GGAAAAATCTTGGATTATGAAGTGACTCTCACAAGATGGAAATCACATTTACAAAATTAC
ACAGTTAATGCCACAAAACTGACAGTAAATCTCACAAATGATCGCTATCTAGCAACCCTA
ACAGTAAGAAATCTTGTTGGCAAATCAGATGCAGCTGTTTTAACTATCCCTGCCTGTGAC
TTTCAAGCTACTCACCCTGTAATGGATCTTAAAGCATTCCCCAAAGATAACATGCTTTGG
GTGGAATGGACTACTCCAAGGGAATCTGTAAAGAAATATATACTTGAGTGGTGTGTGTTA
TCAGATAAAGCACCCTGTATCACAGACTGGCAACAAGAAGATGGTACCGTGCATCGCACC
TATTTAAGAGGGAACTTAGCAGAGAGCAAATGCTATTTGATAACAGTTACTCCAGTATAT
GCTGATGGACCAGGAAGCCCTGAATCCATAAAGGCATACCTTAAACAAGCTCCACCTTCC
AAAGGACCTACTGTTCGGACAAAAAAAGTAGGGAAAAACGAAGCTGTCTTAGAGTGGGAC
CAACTTCCTGTTGATGTTCAGAATGGATTTATCAGAAATTATACTATATTTTATAGAACC
ATCATTGGAAATGAAACTGCTGTGAATGTGGATTCTTCCCACACAGAATATACATTGTCC
TCTTTGACTAGTGACACATTGTACATGGTACGAATGGCAGCATACACAGATGAAGGTGGG
AAGGATGGTCCAGAATTCACTTTTACTACCCCAAAGTTTGCTCAAGGAGAAATTGAAGCC
ATAGTCGTGCCTGTTTGCTTAGCATTCCTATTGACAACTCTTCTGGGAGTGCTGTTCTGC
TTTAATAAGCGAGACCTAATTAAAAAACACATCTGGCCTAATGTTCCAGATCCTTCAAAG
AGTCATATTGCCCAGTGGTCACCTCACACTCCTCCAAGGCACAATTTTAATTCAAAAGAT
CAAATGTATTCAGATGGCAATTTCACTGATGTAAGTGTTGTGGAAATAGAAGCAAATGAC
AAAAAGCCTTTTCCAGAAGATCTGAAATCATTGGACCTGTTCAAAAAGGAAAAAATTAAT
ACTGAAGGACACAGCAGTGGTATTGGGGGGTCTTCATGCATGTCATCTTCTAGGCCAAGC
ATTTCTAGCAGTGATGAAAATGAATCTTCACAAAACACTTCGAGCACTGTCCAGTATTCT
ACCGTGGTACACAGTGGCTACAGACACCAAGTTCCGTCAGTCCAAGTCTTCTCAAGATCC
GAGTCTACCCAGCCCTTGTTAGATTCAGAGGAGCGGCCAGAAGATCTACAATTAGTAGAT
CATGTAGATGGCGGTGATGGTATTTTGCCCAGGCAACAGTACTTCAAACAGAACTGCAGT
CAGCATGAATCCAGTCCAGATATTTCACATTTTGAAAGGTCAAAGCAAGTTTCATCAGTC
AATGAGGAAGATTTTGTTAGACTTAAACAGCAGATTTCAGATCATATTTCACAATCCTGT
GGATCTGGGCAAATGAAAATGTTTCAGGAAGTTTCTGCAGCAGATGCTTTTGGTCCAGGT
ACTGAGGGACAAGTAGAAAGATTTGAAACAGTTGGCATGGAGGCTGCGACTGATGAAGGC
ATGCCTAAAAGTTACTTACCACAGACTGTACGGCAAGGCGGCTACATGCCTCAGTGA

Clone variation with respect to NM_002184.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002184 unedited
TAATTACCCCCGCCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA
AGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCC
GCGAATTCGGCACGAGGCTGAACCGGGGGCCGCGCCTGCCAGGCCGACGGGTCTGGCCCA
GCCTGGCGCCAAGGGGTTCGTGCGCTGTGGAGACGCGGAGGGTCGAGGCGGCGCGGCCTG
AGTGAAACCCAATGGAAAAAGCATGACATTTAGAAGTAGAAGACTTAGCTTCAAATCCCT
ACTCCTTCACTTACTAATTTTGTGATTTGGAAATATCCGCGCAAGATGTTGACGTTGCAG
ACTTGGCTAGTGCAAGCCTTGTTTATTTTCCTCACCACTGAATCTACAGGTGAACTTCTA
GATCCATGTGGTTATATCAGTCCTGAATCTCCAGTTGTACAACTTCATTCTAATTTCACT
GCAGTTTGTGTGCTAAAGGAAAAATGTATGGATTATTTTCATGTAAATGCTAATTACATT
GTCTGGAAAACAAACCATTTTACTATTCCTAAGGAGCAATATACTATCATAAACAGAACA
GCATCCAGTGTCACCTTTACAGATATAGCTTCATTAAATATTCAGCTCACTTGCAACATT
CTTACATTCGGACAGCTTGAACAGAATGTTTATGGAATCACAATAATTTCAGGCTTGCCT
CCAGAANAACCTAAAAATTTGAGTTGCATTGTGAACGAGGGGAAGAACACTGAGTGTGAG
TGGGAGGGTNGNAANGGGAAACACACTTGGNAGACAACTTCACTTTAAATCTGAATGGGC
ACACACCAGTTTGCTGATTGCAAGCAAACGTGACACCCCCCTCTGCACTGTTGATATTCT
ACGGGGTATTTGCACCAATGAATCTGGTAAACCAAGATGG
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Restriction Sites: NotI-NotI

ACCN: NM_002184

Insert Size: 5500 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_002184.2, NP_002175.2

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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.