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Product datasheet for RN213203

Cyld (NM_001017380) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyld (NM_001017380) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cyld
Synonyms:	LRRGT00003; Rp1; Rp1h
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>RN213203 representing NM_001017380
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTTCAGGCCTGTGGAACCAAGAGAAAGTTACTTCACCCTACTGGGAAGAACGGCTTTTTTATCTGC
TTCTTCAAGAATGCAGTGTAACAGACAAACAGACACAGAAGCTCCTGAGAGTACCCAAAGGGAGCATAGG
ACAGTACATCCAAGACCGTTCCGTGGGGCATTCAAGAGTTCCTTCTGCTAAAGGCAAGAAAAATCAGATT
GGATTAAAAATCTTAGAGCAACCGCATGCAGTTCTGTTTGTTGATGAAAAGGATGTTGTAGAAATAAATG
AAAAATTCACAGAGTTACTGTTGGCAATTACCAACTGTGAGGAGAGGCTCAGCCTATTTAGAAACAGAAT
CCGACTAAGTAAAGGCCTCCAGGTAGACGTGGGCAGTCCTGTGAGAGTACAGCTGCGATCTGGGGAGGAG
AAGTTTCCAGGAGTTGTACGCTTCAGAGGACCTTTATTAGCGGAGAGGACGGTGTCGGGGATTTTCTTTG
GAGTAGAATTACTGGAAGAAGGTCGTGGCCAAGGTTTCACTGATGGGGTGTATCAAGGAAAACAGCTCTT
CCAGTGTGATGAGGACTGTGGCGTTTTTGTTGCATTGGACAAGCTGGAGCTTATAGAAGATGATGACAAT
GGGTTGGAAAGTGATTTTGCAGGCCCAGGAGATACAGTCCAGGTTGAACCTCCCCCTTTGGAAATAAACT
CCAGAGTTTCTTTGAAGGTTGGAGAAAGTACAGAATCTGGAACAGTGATATTCTGTGATGTTTTACCAGG
AAAAGAGAGTCTAGGATATTTTGTTGGTGTGGACATGGATAACCCTATTGGCAACTGGGACGGAAGGTTT
GATGGGGTTCAGCTTTGCAGTTTTGCAAGTGTTGAGAGTACAGTTCTCCTACACATCAATGACATCATCC
CAGATAGCGTGACACAGGAAAGGAGACCTCCCAAACTTGCCTTTATGTCAAGAGGTGTAGGTGACAAAGG
TTCATCTAGTCATAATAAACCAAAGGTTACAGGATCTACCTCAGACCCTGGAAGTAGAAACAGATCTGAA
TTATTTTATACCTTAAATGGGTCATCTGTTGACTCACAACAACAATCCAAGTCCAAAAACCCATGGTACA
TTGATGAAGTTGCAGAAGACCCTGCAAAGTCACTTACAGAGATGTCTTCAGACTTCGGACATTCATCGCC
TCCACCGCAACCTCCTTCCATGAACTCCTTGTCTAGCGAGAACAGATTCCACTCCTTACCCTTCAGCCTG
ACAAAGATGCCCAACACTAATGGCAGCATGGCTCACAGTCCACTCTCTCTGTCAGTGCAGTCTGTGATGG
GAGAGCTGAACAGCACTCCTGTCCAGGAGAGTCCACCCATGCCCAGCTCTTCTGGGAATGCACACGGGCT
AGAGGTGGGCTCACTGGCTGAAGTAAAAGAGAACCCCCCGTTCTATGGGGTTATCCGTTGGATTGGCCAG
CCACCAGGGCTCAGTGACGTGCTTGCTGGATTGGAACTGGAAGATGAATGCGCAGGTTGTACGGATGGAA
CTTTCAGGGGCACGCGCTATTTCACCTGTGCCCTGAAGAAAGCACTGTTCGTGAAACTGAAGAGCTGCAG
ACCAGACTCTAGGTTTGCATCCTTGCAGCCTGTTTCCAATCAGATCGAAAGGTGTAACTCTTTAGCATTT
GGGGGCTACTTAAGTGAAGTAGTAGAAGAAAATACGCCACCTAAAATGGAAAAGGAAGGTTTAGAGATAA
TGATTGGAAAGAAGAAAGGCATCCAGGGCCATTACAATTCTTGTTACTTAGACTCAACTTTATTCTGCTT
ATTTGCTTTTAGTTCTGCCCTGGACACTGTATTACTTAGACCCAAAGAGAAGAATGATGTAGAGTATTAC
AGTGAGACTCAAGAGCTACTGAGGACAGAGATAGTCAATCCTCTGAGAATATATGGATATGTGTGTGCCA
CAAAGATTATGAAGCTGAGGAAAATACTTGAAAAAGTTGAGGCTGCATCAGGATTTACCTCTGAGGAAAA
AGATCCTGAAGAATTTCTAAACATCCTGTTTCATGATATTTTAAGGGTTGAACCATTGTTAAAAATAAGG
TCAGCAGGTCAAAAAGTTCAAGACTGTAACTTCTATCAAATTTTTATGGAAAAAAATGAGAAAGTCGGAG
TACCCACAATCCAGCAGTTATTAGAATGGTCTTTTATCAACAGCAACCTGAAATTTGCAGAGGCACCATC
ATGCTTGATTATCCAGATGCCTCGGTTTGGGAAAGACTTTAAACTATTTAAAAAAATTTTTCCTTCCCTG
GAATTAAATATAACAGATTTACTTGAAGACACTCCCAGGCAGTGCCGCATCTGTGGAGGACTCGCCATGT
ATGAGTGTAGAGAGTGCTATGATGACCCGGACATCTCGGCAGGGAAGATCAAGCAGTTCTGTAAGACCTG
CAGCACTCAGGTTCACCTTCATCCCAGAAGACTGAATCACACTTACCATCCAGTATCACTTCCCAAAGAC
TTGCCCGACTGGGACTGGAGACACGGCTGCATCCCGTGTCAGAAGATGGAGTTATTTGCTGTGCTCTGCA
TAGAAACCAGCCACTATGTTGCTTTTGTGAAGTACGGGAAGGATGACTCTGCCTGGCTCTTCTTTGACAG
CATGGCTGATCGAGATGGTGGTCAGAATGGCTTCAACATTCCACAAGTGACACCCTGCCCAGAAGTAGGA
GAGTACTTGAAGATGTCTCTGGAGGACCTGCACTCTTTGGACTCCAGAAGGATTCAAGGCTGTGCGCGCA
GACTTCTTTGCGATGCATACATGTGCATGTACCAGAGTCCAACCATGAGCTTGTACAAATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001017380
Insert Size:	2862 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_001017380.1, NP_001017380.1
RefSeq Size:	3267 bp
RefSeq ORF:	2862 bp
Locus ID:	312937
UniProt ID:	Q66H62
Cytogenetics:	19p11

Gene Summary: Deubiquitinase that specifically cleaves 'Lys-63'- and linear 'Met-1'-linked polyubiquitin chains and is involved in NF-kappa-B activation and TNF-alpha-induced necroptosis. Plays an important role in the regulation of pathways leading to NF-kappa-B activation. Contributes to the regulation of cell survival, proliferation and differentiation via its effects on NF-kappa-B activation. Negative regulator of Wnt signaling. Inhibits HDAC6 and thereby promotes acetylation of alpha-tubulin and stabilization of microtubules. Plays a role in the regulation of microtubule dynamics, and thereby contributes to the regulation of cell proliferation, cell polarization, cell migration, and angiogenesis. Required for normal cell cycle progress and normal cytokinesis. Inhibits nuclear translocation of NF-kappa-B. Plays a role in the regulation of inflammation and the innate immune response, via its effects on NF-kappa-B activation (By similarity). Dispensable for the maturation of intrathymic natural killer cells, but required for the continued survival of immature natural killer cells. Negatively regulates TNFRSF11A signaling and osteoclastogenesis. Involved in the regulation of ciliogenesis, allowing ciliary basal bodies to migrate and dock to the plasma membrane; this process does not depend on NF-kappa-B activation (By similarity). Ability to remove linear ('Met-1'-linked) polyubiquitin chains regulates innate immunity and TNF-alpha-induced necroptosis: recruited to the LUBAC complex via interaction with SPATA2 and restricts linear polyubiquitin formation on target proteins. Regulates innate immunity by restricting linear polyubiquitin formation on RIPK2 in response to NOD2 stimulation (By similarity). Involved in TNF-alpha-induced necroptosis by removing linear ('Met-1'-linked) polyubiquitin chains from RIPK1, thereby regulating the kinase activity of RIPK1 (By similarity). Removes 'Lys-63' linked polyubiquitin chain of MAP3K7, which inhibits phosphorylation and blocks downstream activation of the JNK-p38 kinase cascades (By similarity).[UniProtKB/Swiss-Prot Function]