

Product datasheet for **RG220858**

CHI3L2 (NM_001025197) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHI3L2 (NM_001025197) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHI3L2
Synonyms:	CHIL2; YKL-39; YKL39
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220858 representing NM_001025197 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGCAACCACCATGGACCAGAAGTCTCTCTGGGCAGGATCTGCCTACAACTGGTTTGCTACTTTA
CCAAGTGGTCCCAGGACCGGCAGGAACCAGGAAAATTCACCCCTGAGAATATTGACCCCTCCTATGCTC
TCATCTCATCTATTCATTGCGCCAGCATCGAAAACAACAAGTTATCATCAAGGACAAGAGTGAAGTGATG
CTCTACCAGACCATCAACAGTCTCAAAACCAAGAATCCCAAAGTAAAATTCCTTGTCCATTGGAGGGT
ACCTGTTTGGTTCCAAAGGGTCCACCCTATGGTGGATTCTTCTACATCACGCTTGAATTCATTAAGT
CATAATCCTGTTTCTGAGGAACCATAAATTTGATGGACTGGATGTAAAGCTGGATCTACCCAGATCAGAAA
GAAAACACTCATTTCACTGTGCTGATTCATGAGTTAGCAGAAGCCTTTCAGAAGGACTTCACAAAATCCA
CCAAGGAAAGGCTTCTTGGACTGCGGGCGTATCTGCAGGGAGGCAAAATGATTGATAACAGCTATCAAGT
TGAGAACTGGCAAAAGATCTGGATTCATCAACCTCCTGTCTTTGACTTCCATGGGTCTTGGGAAAAG
CCCCTTACTACTGGCCACAACAGCCCTCTGAGCAAGGGGTGGCAGGACAGAGGGCCAAGCTCCTACTACA
ATGTGGAATATGCTGTGGGTACTGGATACATAAGGGAATGCCATCAGAGAAGGTGGTATGGGCATCCC
CACATATGGGCACTCCTTCACTGGCCCTCTGCAGAAACCACCGTGGGGGCCCTGCCTCTGGCCCTGGA
GCTGTGGACCCATCACAGAGTCTTCAAGCTTCTGGCCTATTATGAGATCTGCCAGTTCTGAAAGGAG
CCAAGATCACGGCTCCAGGATCAGCAGGTTCCCTACGCAAGTCAAGGGGAACCAAGTGGGTGGGCTATGA
TGATGTGAAGAGTATGGAGACCAAGGTTCAAGTCTTAAAGAATTTAAACCTGGGAGGAGCCATGATCTGG
TCTATTGACATGGATGACTTCACTGGCAAATCCTGCAACAGGGCCCTTACCCTCTTGTCCAAGCAGTCA
AGAGAAGCCTTGGCTCCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220858 representing NM_001025197
Red=Cloning site Green=Tags(s)

MGATTMDQKSLWAGSAYKLVICYFTNWSQDRQEPGKFTPENIDPFLCSHLIYSFASIENNKVVIKDKSEVM
 LYQTINSLKTKNPKLKILLSIGGYLFGSKGFHPMVDSSSTRLEFINSIILFLRNHNFDGLDVSWIYPDQK
 ENTHFTVLIHELAEAFQKDFTKSTKERLLLTAGVSAGRQIMIDNSYQVEKLAKDLDFINLLSFDHFGSWEK
 PLITGHNSPLSKGWQDRGPSSYINVEYAVGYWIHKMPSEKVVMIPTYGHSFTLASAETTVGAPASGPG
 AAGPITESGFLAYYEICQFLKGAKITRLQDQQVPYAVKGNQWVGYDDVKSMETKVQFLKNLNLGGAMIW
 SIDMDDFTGKSCNQPYPLVQAVKRSLGSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001025197

ORF Size: 1140 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.
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_001025197.1](#), [NP_001020368.1](#)

RefSeq Size: 1456 bp

RefSeq ORF: 1143 bp

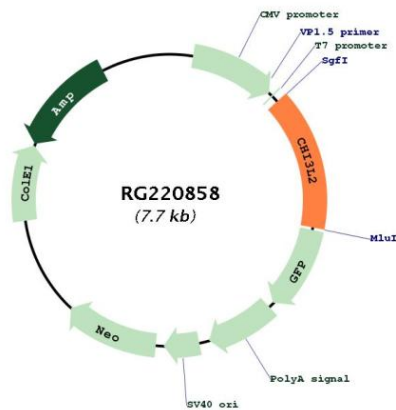
Locus ID: 1117

UniProt ID: [Q15782](#)

Cytogenetics: 1p13.2

Gene Summary: The protein encoded by this gene is similar to bacterial chitinases but lacks chitinase activity. The encoded protein is secreted and is involved in cartilage biogenesis. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]

Product images:



Circular map for RG220858