

Product datasheet for **RG220804**

CHI3L2 (NM_004000) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHI3L2 (NM_004000) 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:	>RG220804 representing NM_004000 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGCAACCACCATGGACCAGAAGTCTCTCTGGGCAGGTGTAGTGGTCTTGCTGCTTCTCCAGGGAG
GATCTGCCTACAACTGGTTTGCTACTTTACCAACTGGTCCCAGGACCGGCAGGAACCAGGAAAATTCAC
CCCTGAGAATATTGACCCCTTCTATGCTCTCATCTCATCTATTTCGCCAGCATCGAAAACAACAAG
GTTATCATCAAGGACAAGAGTGAAGTATGCTCTACCAGACCATCAACAGTCTCAAACCAAGAATCCCA
AACTGAAAATTCTTTGTCATTGGAGGGTACCTGTTTGGTTCCAAAGGGTTCACCCCTATGGTGGATTC
TTCTACATCACGCTTGAATTCATTAACCCATAATCCTGTTTCTGAGGAACCATAACTTTGATGGACTG
GATGTAAGCTGGATCTACCCAGATCAGAAAGAAAACACTATTTCACTGTGCTGATTCATGAGTTAGCAG
AAGCCTTTCAGAAGGACTTCACAAAATCCACCAAGGAAAGGCTTCTCTTGACTGTGGCGTATCTGCAGG
GAGGCAATGATTGATAACAGCTATCAAGTTGAGAAACTGGCAAAAGATCTGGATTTTCATCAACCTCCTG
TCCTTTGACTTCCATGGGTCTTGGGAAAAGCCCTTATCACTGGCCACAACAGCCCTCTGAGCAAGGGGT
GGCAGGACAGAGGGCCAAGCTCTACTACAATGTGGAATATGCTGTGGGGTACTGGATACATAAGGGAAT
GCCATCAGAGAAGGTGGTCATGGGCATCCCCACATATGGGCACCTCTTCACTGGCCTCTGCAGAAACC
ACCGTGGGGCCCTGCCTCTGGCCCTGGAGCTGCTGGACCCATCACAGAGTCTTCAGGCTTCTGGCCT
ATTATGAGATCTGCCAGTTCCTGAAAGGAGCAAGATCACGCGGCTCCAGGATCAGCAGGTTCCCTACGC
AGTCAAGGGGAACCAGTGGGTGGCTATGATGATGTGAAGAGTATGGAGACCAAGTTTCAGTTCTTAAAG
AATTTAAACCTGGGAGGACCATGATCTGGTCTATTGACATGGATGACTTCACTGGCAAATCCTGCAACC
AGGGCCCTTACCCTCTTGTCCAAGCAGTCAAGAGAAGCCTTGGCTCCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG220804 representing NM_004000
 Red=Cloning site Green=Tags(s)

MGATTMDQKSLWAGVVVLLLLQGG SAYKLV CYFTNWSQDRQEPGKFTPENIDPFLCSHLIYSFASIENNK
 VI IKDKSEVMLYQTINSLKTKNPKLKILLSIGGYLFGSKGFHPMVDSSSRLEFINSIILFRNHNFDGL
 DVSWIYPDQKENTHFTVLIHELAEAFQKDFTKSTKERLLLTVGVSAGRQ MIDNSYQVEKLAKDLDFINLL
 SFDFHGSWEKPLITGHNSPLSKGWQDRGPSSYYNVEYAVGYWIHKMPSEKVVVMGIPTYGHSFTLSAET
 TVGAPASGPGAAGPITESGFLAYYEICQFLKGAKITRLQDQQVPYAVKGNQWVGYDDVKSMETKVQFLK
 NLNLGGAMIWSIDMDDFTGKSCNQGPYPLVQAVKRSLSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004000

ORF Size: 1170 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_004000.2](#), [NP_003991.2](#)

RefSeq Size: 1486 bp

RefSeq ORF: 1173 bp

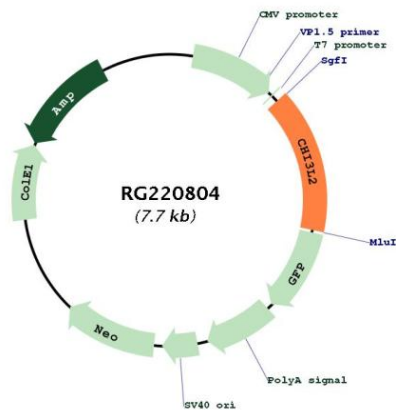
Locus ID: 1117

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 RG220804