

## Product datasheet for **RG203769**

### CHI3L1 (NM\_001276) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | CHI3L1 (NM_001276) Human Tagged ORF Clone   |
| Tag:                      | TurboGFP  |
| Symbol:                   | CHI3L1  |
| Synonyms:                 | ASRT7; CGP-39; GP-39; GP39; HC-gp39; HCGP-3P; hCGP-39; YK-40; YKL-40; YKL40; YYL-40 |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >RG203769 representing NM_001276<br>Red=Cloning site Blue=ORF Green=Tags(s)         |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGTGTGAAGGCGTCTCAAACAGGCTTTGTGGTCTGGTGTCTCCAGTGTCTGCATACAAAC  
TGGTCTGCTACTACACCAGCTGGTCCCAGTACCGGAAGGCGATGGGAGCTGTTCCCAGATGCCCTTGA  
CCGCTTCTCTGTACCCACATCATCTACAGCTTTGCCAATAAAGCAACGATCACATCGACACCTGGGAG  
TGAATGATGTGACGCTCTACGGCATGCTCAACACACTCAAGAACAGGAACCCCAACCTGAAGACTCTCT  
TGCTGTGCGGAGGATGGAACCTTTGGGTCTCAAAGATTTTCCAAGATAGCCTCCAACACCCAGAGTCGCCG  
GACTTTTCATCAAGTCAGTACCGCAATTTCTGCGCACCCATGGCTTTGATGGGCTGGACCTTGCTGGCTC  
TACCCTGGACGGAGAGACAAACAGCATTTTACCACCTAATCAAGGAAATGAAGGCCGAATTTATAAAGG  
AAGCCCAGCCAGGAAAAAGCAGCTCCTGCTCAGCGCAGCACTGTCTGCGGGGAAGGTCACCATTGACAG  
CAGCTATGACATTGCCAAGATATCCCAACACCTGGATTTTCATTAGCATCATGACCTACGATTTTCATGGA  
GCCTGGCGTGGGACCACAGGCCATCACAGTCCCCTGTTCCGAGGTGAGGAGGATGCAAGTCTGACAGAT  
TCAGCAACACTGACTATGCTGTGGGTACATGTTGAGGCTGGGGCTCCTGCCAGTAAGTGGTGTGGG  
CATCCCCACCTTCGGGAGGAGCTTCACTCTGGCTTCTTCTGAGACTGGTGTGGAGCCCCAATCTCAGGA  
CCGGGAATTCAGGCGGTTACCAAGGAGGCAGGGACCCTTGCCTACTATGAGATCTGTGACTTCTCTCC  
CGGGAGCCACAGTCCATAGAATCCTCGGCCAGCAGGTCCCCTATGCCACCAAGGGCAACCAAGTGGGTAGG  
ATACGACGACCAGGAAAGCGTCAAAGCAAGGTGACGTACCTGAAGGACAGGCAGCTGGCGGGCGCCATG  
GTATGGGCCCTGGACCTGGATGACTTCCAGGGCTCCTTCTGCGGCCAGGATCTGCGCTTCCCTCTCACCA  
ATGCCATCAAGGATGCACTCGTGCAACG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG203769 representing NM\_001276  
 Red=Cloning site Green=Tags(s)

MGVKASQTGFVVLVLLQCCSAYKLVCIYTSWSQYREGDGSCFPDALDRFLCTHIIYSFANISNDHIDTWE  
 WNDVTLYGMLNLTKNRPNLKTLLSVGGWNFGSQRF SKIASNTQSRRTF IKSVPFPLRTHGFDGLDLAWL  
 YPGRRDKQHFTTLIKEMKAEFIKEAQP GKQLLLSAALSAGKVTIDSSYDIAKISQHLDFISIMTYDFHG  
 AWRGTTGHHSPFLFRQEDASPDFRSNTDYAVGYMLRLGAPASKLVMGIPTFGRSFTLASSETGVGAPISG  
 PGIPGRFTKEAGTLAYYEICDFLRGATVHRILGQQVYPYATKGNQWVGYDDQESVKSKVQYLKDRQLAGAM  
 VWALDLDDFQGSFCGQDLRFPLTNAIKDALAAT

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001276

**ORF Size:** 1149 bp

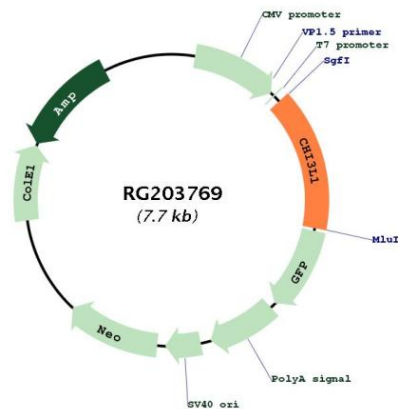
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

|                               |   |
|-------------------------------|---|
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <a href="#">NM_001276.3</a>   |
| <b>RefSeq Size:</b>           | 1925 bp   |
| <b>RefSeq ORF:</b>            | 1152 bp   |
| <b>Locus ID:</b>              | 1116  |
| <b>UniProt ID:</b>            | <a href="#">P36222</a>  |
| <b>Cytogenetics:</b>          | 1q32.1  |
| <b>Domains:</b>               | Glyco_18  |
| <b>Protein Families:</b>      | Secreted Protein  |
| <b>Gene Summary:</b>          | Chitinases catalyze the hydrolysis of chitin, which is an abundant glycopolymer found in insect exoskeletons and fungal cell walls. The glycoside hydrolase 18 family of chitinases includes eight human family members. This gene encodes a glycoprotein member of the glycosyl hydrolase 18 family. The protein lacks chitinase activity and is secreted by activated macrophages, chondrocytes, neutrophils and synovial cells. The protein is thought to play a role in the process of inflammation and tissue remodeling. [provided by RefSeq, Sep 2009] |

### Product images:



Circular map for RG203769