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Product datasheet for SC125328

CHI3L1 (NM_001276) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHI3L1 (NM_001276) Human Untagged Clone
Tag:	Tag Free
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:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC125328 sequence for NM_001276 edited (data generated by NextGen Sequencing)

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ATGGGTGTGAAGGCGTCTCAAACAGGCTTTGTGGTCCTGGTGCTGCTCCAGTGCTGCTCT
GCATACAAACTGGTCTGCTACTACACCAGCTGGTCCCAGTACCGGGAAGGCGATGGGAGC
TGCTTCCCAGATGCCCTTGACCGCTTCCTCTGTACCCACATCATCTACAGCTTTGCCAAT
ATAAGCAACGATCACATCGACACCTGGGAGTGGAATGATGTGACGCTCTACGGCATGCTC
AACACACTCAAGAACAGGAACCCCAACCTGAAGACTCTCTTGTCTGTCGGAGGATGGAAC
TTTGGGTCTCAAAGATTTTCCAAGATAGCCTCCAACACCCAGAGTCGCCGGACTTTCATC
AAGTCAGTACCGCTATTTCTGCGCACCCATGGCTTTGATGGGCTGGACCTTGCCTGGCTC
TACCCTGGACGGAGAGACAAACAGCATTTTACCACCCTAATCAAGGAAATGAAGGCCGAA
TTTATAAAGGAAGCCCAGCCAGGGAAAAAGCAGCTCCTGCTCAGCGCAGCACTGTCTGCG
GGGAAGGTCACCATTGACAGCAGCTATGACATTGCCAAGATATCCCAACACCTGGATTTC
ATTAGCATCATGACCTACGATTTTCATGGAGCCTGGCGTGGGACCACAGGCCATCACAGT
CCCCTGTTCCGAGGTCAGGAGGATGCAAGTCCTGACAGATTCAGCAACACTGACTATGCT
GTGGGGTACATGTTGAGGCTGGGGGCTCCTGCCAGTAAGCTGGTGATGGGCATCCCCACC
TTCGGGAGGAGCTTCACTCTGGCTTCTTCTGAGACTGGTGTTGGAGCCCCAATCTCAGGA
CCGGGAATTCCAGGCCGGTTCACCAAGGAGGCAGGGACCCTTGCCTACTATGAGATCTGT
GACTTCCTCCGCGGAGCCACAGTCCATAGAATCCTCGGCCAGCAGGTCCCCTATGCCACC
AAGGGCAACCAGTGGGTAGGATACGACGACCAGGAAAGCGTCAAAAGCAAGGTGCAGTAC
CTGAAGGACAGGCAGCTGGCGGGCGCCATGGTATGGGCCCTGGACCTGGATGACTTCCAG
GGCTCCTTCTGCGGCCAGGATCTGCGCTTCCCTCTCACCAATGCCATCAAGGATGCACTC
GCTGCAACGTAG

Clone variation with respect to NM_001276.2
374 c=>t
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001276 unedited
TTATAATACGGTGATCTATAGTTGGCCGCGAATTCGGCACGAGGGCCTCGTGCTTTAATT
CGGCACGAGGGGTATATAAAGGAAGTACAGGGCCTGGGGAAGAGGCCCTGTCTAGGTAGC
TGGCACCAGGAGCCGTGGGCAAGGGAAGAGGCCACACCCTGCCCTGCTCTGCTGCAGCCA
GAATGGGTGTGAAGGCGTCTCAAACAGGCTTTGTGGTCCTGGTGCTGCTCCAGTGCTGCT
CTGCATACAAACTGGTCTGCTACTACACCAGCTGGTCCCAGTACCGGGAAGGCGATGGGA
GCTGCTTCCCAGATGCCCTTGACCGCTTCCTCTGTACCCACATCATCTACAGCTTTGCCA
ATATAAGCAACGATCACATCGACACCTGGGAGTGGAATGATGTGACGCTCTACGGCATGC
TCAACACACTCAAGAACAGGAACCCCAACCTGAAGACTCTCTTGTCTGTCGGAGGATGGA
ACTTTGGGTCTCAAAGATTTTCCAAGATAGCCTCCAACACCCAGAGTCGCCGGACTTTCA
TCAAGTCAGTACCGCTATTTCTGCGCACCCATGGCTTTGATGGGCTGGACCTTGCCTGGC
TCTACCCTGGACGGAGAGACAAACAGCATTTTACCACCCTAATCAAGGAAATGAAGGCCG
AATTTATAAAGGAAGCCCAGCCAGGGAAAAAGCAGCTCCTGCTCAGCGCAGCCCTGTCTG
CGGGGAAGGTCACCATTGACAGCAGCTATGACATTGCCAAGAATCCCACACCTGNATTTC
ATTGCATCATGACTACGATTTTATGGAGCCTGGGTGGGACCACAGCCATACAGTCCCCTG
TTCGAGGTCAGAGATGCAAGCCTGACGATCAGCACACTGACTTGCTTGGGGTACAGTTAG
CTGGGGCTCTGCCATAGCTGGGATGGCTCCCCCTTCGAAGAACTCCTTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001276 unedited
AACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAACCCCTTGTACTTTATTGACCACCTGGGG
AATTAGGAAGGGGAAGTAGGATAGGGGACACAATTACCTTCCTAAGGGAAGGTTTCAAGC
TGGGCTTTGCAGGGGGTATAATTAATATGGCCACTGGGTCTTGTAGGATGTTTGGCTCCT
TGGGGAAAAAACTTGCCAAAATGGGGCCCTTTTATAAAGAGGGCTGGGGGGCAGGGATTT
AAAAAAATTCCCTTGCCAGGCTTGGGGATCTGTAAACTTTTCCATTAATCAACAAGGGTG
TACTAATCCCGAGTTTTACTTTGGGAAGCCTCACTTTCCCCAAAGCCCCATCCCTACCTT
TTTGCCCACCAGGGTTGAGCTTAAATCTTGGTGTTGGGGACCCTTGCTTAGGCCCCAAGG
GAGGGAAACTGAGGCTCACCCTGGGACTCAACAGGGCAGGTGATCCGGCTCCCGCCCCCT
TGTACCCAAAGGGGGACGGGGCTTTCTTGGCCCCCGTTCTTTGTGCAAAACAAAGGGCTA
CCTTGCAACGAGGGCTTCCTCTTTGGCTTTGCGGAAAGGAAAACCCAAATCCTGTCCCCA
AAAAGGAACCTGGAAATTTTCCAGATCCCAGGGCCCATACCATGGGGCCCCCCAACTTGC
CTTGCCTTTAAGTACTGCCCCTTGTTTTGAACTTTTTCTGGCCGCAATTCCCCACCACAT
TGTTCCCTTTTGGGGCATTGGGCACTCGTTGCCCGAAATCTTAGGACTGGGGCCCCCGGA
AGAACACCCACCTTATAATCCAGGCGCCCTCCTCTTGGAAACCCCTGTAATCCCGCCTTG
ATGGGCCCCCCCCCCCCCAAAAACCAAAAAACCCCTC

Restriction Sites: NotI-NotI

ACCN: NM_001276

Insert Size: 1850 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 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
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_001276.1, NP_001267.1
RefSeq Size:	1925 bp
RefSeq ORF:	1152 bp
Locus ID:	1116
UniProt ID:	P36222
Cytogenetics:	1q32.1
Domains:	Glyco_18
Protein Families:	Secreted Protein
Gene Summary:	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]