

Product datasheet for **SC113107**

C12orf4 (NM_020374) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	C12orf4
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF within SC113107 sequence for NM_020374 edited (data generated by NextGen Sequencing)
 ATGAAGAAAAACAGAGAAAGATTCTGCAATAGAGAGAGAGAATTTGTATATAAATTTAAA
 GTAGGAAGTCAGTGCTTAGAACTGAGAGTGCCACTCAAATTTCTGTTCAAGAGAATGCC
 AGTCATTTGTCATGGACGTCTGATGCTGCTGCACAGTTTACCGTGCTTTATAGAAAAAGAC
 TTAAGAAGCTCTGACTCAGTTTATAGAAGAAGAATCCCTCAGCGATTATGATAGAGAT
 GCTGAAGCATCCCTGGCAGCTGTGAAATCAGGTGAAGTAGATTTACATCAGCTGGCGAGT
 ACATGGGCCAAAGCTTATGCTGAGACCACGTTAGAGCATGCAAGGCCTGAAGAACCCAGC
 TGGGATGAAGATTTTGCAGATGTGTACCATGACTTAATTCATTCTCCTGCCTCTGAAACT
 CTCTTAAATTTGGAACATAATTACTTTGTTAGTATCTCAGAACTGATTGGTGAAAGAGAT
 GTGGAGCTGAAAAAATTACGAGAGAGACAAGGTATTGAAATGGAAGAGTCATGCAGGAA
 TTGGGAAAACTCACTGACAGATCAAGATGTAAATCACTGGCTGCTCAGCATTTTGAATCC
 CAGCAAGACCTAGAAAAATAATGGTGAATGAATTAACAATCACTGCCATCCAAAAA
 CAAGAGTATCAAGAATGGGTAATAAACTTCACCAAGACCTAAAAACCCCAACAACAGC
 TCCCTTAGTGAGGAAATTAAGTTTCAGCCAAGTCAGTTCAGAGAATCTGTAGAAGCAATT
 GGAAGGATTTATGAGGAACAGAGAAAGTTAGAAGAAAGTTTACCATTCACTTAGGAGCC
 CAGTTGAAGACCATGCATAATTTGAGATTGCTGAGAGCAGATATGCTGGACTTCTGTAAG
 CATAAAGAAATCATCGAAGTGGTGTGAACTTCATCGGCTCCAAACAGCTCTGCACTT
 TATTCTACATCTCTGTGGCTGGTTTTACTAGTAGATAATCGAATTAATTCATATAGT
 GGTATTTAAAGAGATTTTGCCACAGTTTGCCAAGAATGCACTGACTTCCATTTCCCGCA
 ATTGAAGAGCAATTAGAAGTTGTCCAACAGGTGGTACTTTATGCTAGAACCAGCGCAGG
 AGTAAATTGAAGAATCACTTGATTCTGGAACCAAAATGGAGGAAATGATGATAAGACT
 AAGAATGCTGAGAGGAATTTAAATGTTTTACCTGGGGAATTTTATATTACACGGCAT
 TCTAATCTCTCAGAAATCCATGTTGCTTTCCATCTCTGTGTGGATGACCATGTGAAATCG
 GGAAACATCACTGCTCGTGATCCTGCCATTATGGGACTCCGAAATATACTCAAAGTTTGC
 TGTACCATGACATCACAACAATAAGCATTCCTCTCTGTGGTACATGATATGTCAGAG
 GAAATGACTATACCCTGGTGTGTTAAGGAGAGCGGAATTTGTGTTCAAGTGTGTCAAAGGT
 TTCATGATGGAATGGCTTCATGGGATGGAGGAATTTCTAGGACAGTGCAATTTCTAGTA
 CCACAGAGTATTTCTGAAGAAATGTTTTATCACTTAGTAACATGCTTCCCAGATCTTC
 CGAGTATCATCAACACTCACTCTGACATCCAAGCACTAA

Clone variation with respect to NM_020374.2

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_020374 unedited
 GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGNAGAATATGAAGAAAAAC
 AGAGAAAGATTCTGCAATAGAGAGAGAGAATTTGTATATAAATTTAAAGTAGGAAGTCAG
 TGCTTAGAACTGAGAGTGCCACTCAAATTTCTGTTCAAGAGAATGCCAGTCATTTGCAT
 GGACGTCTGATGCTGCTGCACAGTTTACCGTGCTTTATAGAAAAAGACTTAAAGAAGCT
 CTGACTCAGTTTATAGAAGAAGAATCCCTCAGCGATTATGATAGAGATGCTGAAGCATCC
 CTGGCAGCTGTGAAATCAGGTGAAGTAGATTTACATCAGCTGGCGAGTACATGGGCCAAA
 GCTTATGCTGAGACCACGTTAGAGCATGCAAGGCCTGAAGAACCCAGCTGGGATGAAGAT
 TTTGCAGATGTGTACCATGACTTAATTCATTCTCCTGCCTCTGAAACTCTCTTAAATTTG
 GAACATAATTACTTTGTTAGTATCTCAGAACTGATTGGTGAAAGAGATGTGGAGCTGAAA
 AAATTACGAGAGAGACAAGGTATTGAAATGGAAGAGTCATGCAGGAATTGGGAAAAATCA
 CTGACAGATCAAGATGTAAATCACTGGCTGCTCAGCATTTTGAATCCCAGCAAGACCTA
 GAANATAAATGGTGAATGAATTAACAATCACTGCCATCCAAAAACAAGAGTATCAA
 GAATGGGTAATAAACTTCACCAAGACCTAAAAACCCCAACACAGCTCCCTTAGTGAGA
 AATATAAAGTCAGCCAAGTCAGTTCAGAGAATCTGTAAGCAATTGGAAGGGATTATGAG
 ACAGGAAAGTTANAAGAAAGTTTCCATTACTTAGNAGCCAGNTGAGACATGCTAANTTGA
 GATGCTGAAGCAAATTGCTGGACTCTGTAGCATAAAAA

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_020374 unedited <pre> CGGCACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGGATTTTAAAATTTTATT GGATTTTTTTTTCAGAATATTTTCCATCCACAGTTGGTTGAACAGAGTGCCATCTGTACCT AGAATGCTGTCTCAGCCCAAGGTACCTTCTTCACATCATTATGAAGTGCTTTAAACCAC TCCCCCTCAAGAAGCCCTTTAGAACAATCAGAAAAAGATCCTCATCTATAATTCTTGGT CCAAATACAAAATCCAGACTCCTCAATTACTGCATCACTAAAATCCACCATTTCAGT GCATATAATTAGCTTTTAAAGTTATATATTATTAGCTTGGTGTGTGTGTTCCTCA TCAGTGGTAACACCATAAACATGATTCTTCCAATTTTACTACTTCTGTAACACAGTTGCA TGTGAAAAACGGACATTCGATAAATTTATCCTGACTTCACATGCCAAATAGTACCTTTAC ACAGCCCTCAGTTAAAGGCCACAGTTTATAAGTAACTAGTGAATAGCCTAGAGGTGAC AAAGGAAGAGTTGGGCAGCAGCATTCAACAAACATCCGTGAATGAACTTTGCTCCTCCA TTCCGATATCTGGGCTGCACTGATCTACCACTCCTGGTTTCTGCCTCTGTCTTCCCTG CTTTGCATTANAATCAGTCTCAGTGATTAACAGTGGTGCCTGAAAGACAATTTCTCCAAG AGAAGTGTATAGGCTCTAAGGGCANAACACCTGCCTTCTGGNCAGAATCGCCAGGCTTCC TGACAATAANTTGGAGAAGTTAGTGTCTAATGGCATACTGCTGGAGTGGGGTGTCTAGG NNTGNCTTAGAGTGNTACCTGGACAAACCTTTCTCGGTAGAAANTAGACCATNCTGTA TAGGAAGCACTCTGCTGCAACAGTCTATATAGTATACCTGAGCTATATGAG </pre>
Restriction Sites:	ECORI-NOT
ACCN:	NM_020374
Insert Size:	4230 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_020374.2</u> , <u>NP_065107.1</u>
RefSeq Size:	3830 bp
RefSeq ORF:	1659 bp
Locus ID:	57102

UniProt ID: Q9NQ89

Cytogenetics: 12p13.32

Gene Summary: This gene is highly conserved from nematodes to humans. In rat, the orthologous gene encodes a cytoplasmic protein that is involved in mast cell degranulation. The human gene has been implicated in autosomal recessive intellectual disability. [provided by RefSeq, Sep 2016]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (α). Variants 1 and 2 both encode the same isoform (α).