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Product datasheet for MG206058

Chst4 (NM_011998) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chst4 (NM_011998) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chst4
Synonyms:	Gn6st-2; GST-3; HEC-GlcNAc6ST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG206058 representing NM_011998
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGCTGTTGAAGAAAGGGAGGCTGCTGATGTTCCTGGGTTCCCAGGTCATCGTTGTAGCTCTCTTCA
TCCATATGTCCGTCCACAGACACCTTTCCCAGAGGGAGGAGTCCAGGAGGCCCGTGCATGTGCTGGTGCT
GTCTTCCTGGCGGTCAGGATCCTCTTTTGTGGGACAGCTTTTCGGGCAGCACCCGGATGTGTTCTACCTG
ATGGAGCCTGCCTGGCATGTGTGGATGACTTTCACCAGCAGCACAGCCTGGAAGCTGCACATGGCTGTGC
GGGATCTTCTGCGTTCCGTCTTCCTGTGTGACATGAGCGTCTTTGATGCCTACATGAACCCAGGCCCCCG
GAAACAGTCCAGCCTCTTCCAGTGGGAGCAAAGCCGGGCCCTGTGCTCAGCGCCTGTGTGTGACTTCTTC
CCTGCCCACGAGATCAGCTCACCCAAGCACTGCAAGCTGCTCTGCGGTCAGCAGCCCTTTGATATGGTGG
AGAAGGCCTGCCGCTCTCACGGCTTCGTGGTACTCAAGGAGGTGCGTTTTCTCAGCCTGCAGGCCCTCTA
TCCACTGCTCACGGACCCTTCCCTCAACCTGCACGTCGTGCACCTGGTCCGAGACCCCCGGGCCGTGTTC
CGATCCCGGGAGCACACCACCATAGAACTCGTGGTTGACAGTCATATTGTGCTAGGGCAGCATTTGGAAA
CGATCAAGGAGGAAGACCAGCCCTATTATGCCATGAAGATCATCTGCAAAAGCCAGGTGGACATAGTCAA
GGCCATCCAAACCCTCCCTGAAGCTCTGCAGCAGCGCTACCTGTTCCTGAGGTATGAGGACCTGGTTCGG
GCACCCCTGGCCCAGACGACCAGACTATATAAATTTGTGGGGTTGGATTTTTTGCCCCACCTCCAAACAT
GGGTTCACAATGTCACCCGCGGCAAGGGCATGGGTCAGCATGCCTTCCATACTAACGCCAGGAACGCCCT
CAACGTCTCTCAGGCGTGGCGTTGGTCCTTACCTTACGAAAAGGTTTCCCAGCTTCAAGATGCCTGCGGT
GAGGCTATGGATTTGCTGGGATACCTCCAGGTCAGATCTCAACAAGAACAAGGCAACCTGTCCCTGGATC
TTCTGTCCTCCTCCCATATCTTGGGGCAGGTCTTCCGAGAAGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

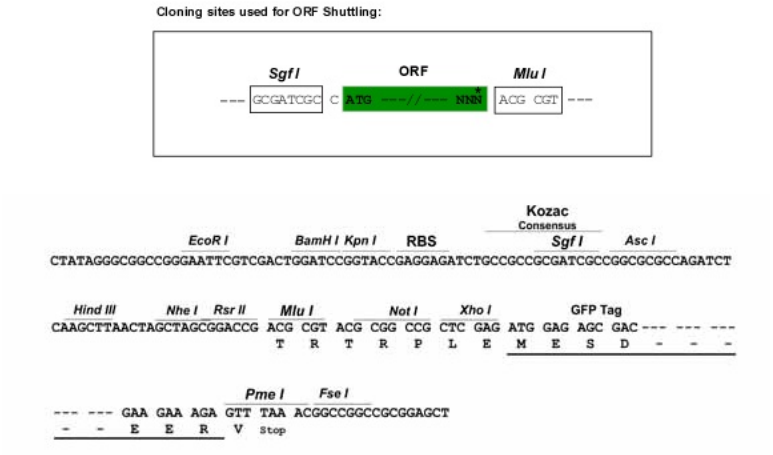
>MG206058 representing NM_011998
Red=Cloning site Green=Tags(s)

MMLLKKGRLLMFLGSQVIVVALFIHMSVHRHLSQREESRRPVHVLVLSSWRSGSSFVGQLFGQHPDVFYL
MEPAWHVWMTFTSSTAWKLHMAVRDLLRSVFLCDMSVFDAYMNPGPRKQSSLFQWEQSRALCSAPVCDFF
PAHEISSPKHCKLLCGQQPFDMVEKACRSHGFVVLKEVRFLSLQALYPLLTDPSLNLHVVHLVRDPRAVF
RSREHTTIELVVDSHIVLGQHLETIKEEDQPYYAMKIICKSQVDIVKAIQTLPEALQQRYLFLRYEDLVR
APLAQTTRLYKFVGLDFLPHLQTWVHNVTRGKGMGQHAFHTNARNALNVSQAWRWSLPYEKVSQLQDACG
EAMDLLGYLQVRSQQEQGNLSLDLLSSSHILGQVFREG

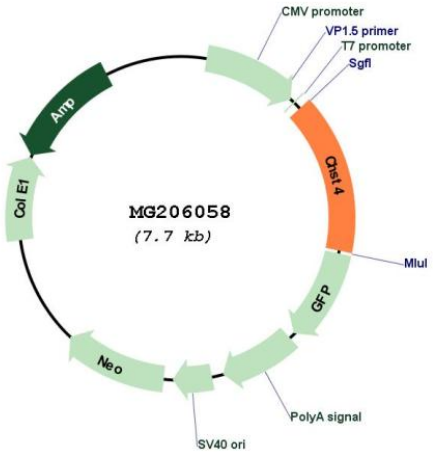
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_011998

ORF Size:	1164 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_011998.3, NP_036128.2
RefSeq Size:	2201 bp
RefSeq ORF:	1167 bp
Locus ID:	26887
UniProt ID:	Q9R1I1
Cytogenetics:	8 D3
Gene Summary:	Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the transfer of sulfate to position 6 of non-reducing N-acetylglucosamine (GlcNAc) residues within mucin-associated glycans that ultimately serve as SELL ligands. SELL ligands are present in high endothelial cells (HEVs) and play a central role in lymphocyte homing at sites of inflammation. Participates in biosynthesis of SELL ligand sialyl 6-sulfo Lewis X on SELL counter-receptors SPN/CD43, GLYCAM1 and MADCAM1. Also involved in biosynthesis of SELL ligand recognized by MECA-79 antibody. Plays a central role in lymphocyte trafficking during chronic inflammation. Has a catalytic preference for core 2-branched mucin-type O-glycans. Can use GlcNAcbeta1-6[Galbeta1-3]GalNAc-pNP (core 2), GlcNAcbeta1-6ManOMe and GlcNAcbeta1-2Man oligosaccharide structures as acceptors. Has also activity toward core 3 of GlcNAcbeta1-3GalNAc-pNP. Its substrate specificity may be influenced by its subcellular location.[UniProtKB/Swiss-Prot Function]