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Product datasheet for MC207718

Chst14 (NM_028117) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chst14 (NM_028117) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Chst14
Synonyms:	2600016L03Rik; D4ST-1; D4st1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC207718 representing NM_028117 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTTTCCCCGCCCTCTGACCCCACTGGCTGCCCCGAAAAGCGCGGAGACCCTGGGCCGCACGCCAAGGC GGGCCCCATTGGGCCGGGCCCGGGCTGGGCTCGGGGGGCCGCCCCTGCTGCTGCCGTCCATGCTGATGTT CGCTGTAATCGTGGCCTCCAGCGGACTGCTGCTCATGATCGAGCGAGGCATCCTATCGGAGATGAAACCC CTTCCCCTGCACCCTCCCAGCCACAAAGGCGCGGCCTGGAGCGGGACAGATCCTAAGCCTAGAGGCCTAT CCTTGGATGCTGGGGACTCGGACTTGCAAGTGAGGGAGGACATCCGAAACCGGACCTTGAGGGCCGTGTG CGGACAACCAGGCATGCCCCGGGACCCCTGGGACTTGCCGGTGGGACAGCGGCGCACCCTGCTGCGCCAC ATTCTCGTAAGTGACCGCTACCGCTTCCTCTACTGCTATGTCCCCAAAGTGGCCTGCTCTAACTGGAAAC GTGTGCTGAAGGTGCTGGCTGGCATCCTGAACAACGTGGATGTCCGCCTCAAGATGGACCACCGCAGTGA CTTGGTGTTTCTGGCAGACCTGCGGCCTGAGGAGATTCGCTACCGTCTGCAGCACTACTTCAAGTTCCTG TTTGTGCGAGACCCCTTGGAACGCCTCCTGTCTGCTTACCGTAACAAGTTTGGAGAGATCCGAGAGTACC AGCAGCGATATGGGGCCGAAATTGTCAGGCGCTACAGGGCTGGAGCTGGCCCCAGCCCTGCAGGGGACGA TGTCACCTTCCCAGAGTTCCTGAGATACCTGGTGGATGAGGATCCTGAACATATGAATGAGCATTGGATG CCTGTGTACCACCTGTGCCAACCATGTGCTGTGCACTACGACTTCGTGGGTTCCTATGAGAGGCTGGAGG CTGATGCCAACCAGGTGCTGGAGTGGGTGCGGGCCCCACCCCATGTCCGGTTCCCAGCTCGCCAGGCCTG GTACCGGCCAGCCAGCCCAGAAAGTCTGCATTACCACTTGTGCAATGTTCCACGGGCCCTGCTTCAAGAT GTGCTACCTAAGTATATCCTGGACTTCTCCCTCTTTGCTTACCCACTGCCCAATGTCACCAAGGAAGCCT GTCACCAATGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI

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ACCN:	NM_028117
Insert Size:	1131 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.
RefSeq:	NM_028117.3, NP_082393.3
RefSeq Size:	2089 bp
RefSeq ORF:	1131 bp
Locus ID:	72136
UniProt ID:	Q80V53
Cytogenetics:	2 E5
Gene Summary:	Catalyzes the transfer of sulfate to position 4 of the N-acetylgalactosamine (GalNAc) residue of dermatan sulfate. Plays a pivotal role in the formation of 4-0-sulfated IdoA blocks in dermatan sulfate. Transfers sulfate to the C-4 hydroxyl of beta1,4-linked GalNAc that is substituted with an alpha-linked iduronic acid (IdoUA) at the C-3 hydroxyl. Transfers sulfate more efficiently to GalNAc residues in -IdoUA-GalNAc-IdoUA- than in -GlcUA-GalNAc-GlcUA- sequences. Has preference for partially desulfated dermatan sulfate. Addition of sulfate to GalNAc may occur immediately after epimerization of GlcUA to IdoUA. Appears to have an important role in the formation of the cerebellar neural network during postnatal brain development.[UniProtKB/Swiss-Prot Function]