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Product datasheet for MR205855

Chst14 (NM_028117) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chst14 (NM_028117) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chst14
Synonyms:	2600016L03Rik; D4ST-1; D4st1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR205855 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTTCCCCGCCCTCTGACCCCACTGGCTGCCCCGAAAAGCGCGGAGACCCTGGGCCGCACGCCAAGGC
GGGCCCCATTGGGCCGGGCCCGGGCTGGGCTCGGGGGGCCGCCCCTGCTGCTGCCGTCCATGCTGATGTT
CGCTGTAATCGTGGCCTCCAGCGGACTGCTGCTCATGATCGAGCGAGGCATCCTATCGGAGATGAAACCC
CTTCCCCTGCACCCTCCCAGCCACAAAGGCGCGGCCTGGAGCGGGACAGATCCTAAGCCTAGAGGCCTAT
CCTTGGATGCTGGGGACTCGGACTTGCAAGTGAGGGAGGACATCCGAAACCGGACCTTGAGGGCCGTGTG
CGGACAACCAGGCATGCCCCGGGACCCCTGGGACTTGCCGGTGGGACAGCGGCGCACCCTGCTGCGCCAC
ATTCTCGTAAGTGACCGCTACCGCTTCCTCTACTGCTATGTCCCCAAAGTGGCCTGCTCTAACTGGAAAC
GTGTGCTGAAGGTGCTGGCTGGCATCCTGAACAACGTGGATGTCCGCCTCAAGATGGACCACCGCAGTGA
CTTGGTGTTTCTGGCAGACCTGCGGCCTGAGGAGATTCGCTACCGTCTGCAGCACTACTTCAAGTTCCTG
TTTGTGCGAGACCCCTTGGAACGCCTCCTGTCTGCTTACCGTAACAAGTTTGGAGAGATCCGAGAGTACC
AGCAGCGATATGGGGCCGAAATTGTCAGGCGCTACAGGGCTGGAGCTGGCCCCAGCCCTGCAGGGGACGA
TGTCACCTTCCCAGAGTTCCTGAGATACCTGGTGGATGAGGATCCTGAACATATGAATGAGCATTGGATG
CCTGTGTACCACCTGTGCCAACCATGTGCTGTGCACTACGACTTCGTGGGTTCCTATGAGAGGCTGGAGG
CTGATGCCAACCAGGTGCTGGAGTGGGTGCGGGCCCCACCCCATGTCCGGTTCCCAGCTCGCCAGGCCTG
GTACCGGCCAGCCAGCCCAGAAAGTCTGCATTACCACTTGTGCAATGTTCCACGGGCCCTGCTTCAAGAT
GTGCTACCTAAGTATATCCTGGACTTCTCCCTCTTTGCTTACCCACTGCCCAATGTCACCAAGGAAGCCT
GTCACCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

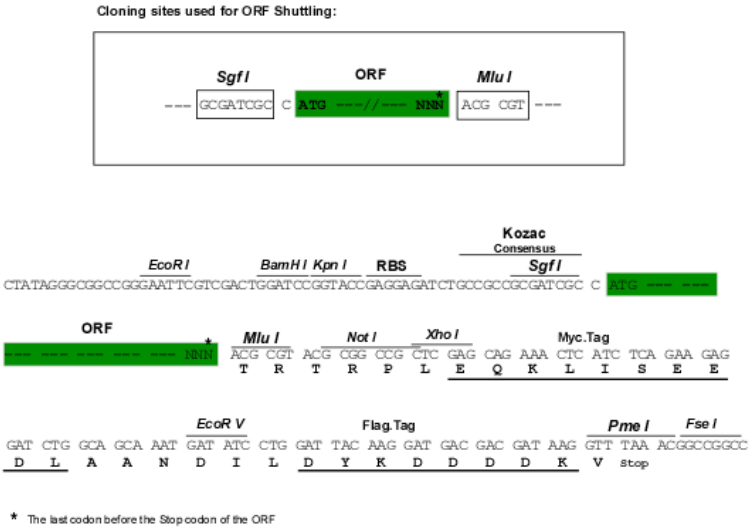
>MR205855 protein sequence
Red=Cloning site Green=Tags(s)

MFPRPLTPLAAPKSAETLGRTPRRAPLGRARAGLGGPPLLLPSMLMFAVIVASSGLLLMIERGILSEMKP
LPLHPPSHKGAAWSGTDPKPRGLSLDAGDSDLQVREDIRNRTLRAVCGQPGMPRDPWDLPVGQRRTLLRH
ILVSDRYRFLYCYVPKVACSNWKRVLKVLAGILNNVDVRLKMDHRSDLVFLADLRPEEIRYRLQHYFKFL
FVRDPLERLLSAYRNKFGEIREYQQRYGAEIVRRYRAGAGPSPAGDDVTFPEFLRYLVDEDPEHMNEHWM
PVYHLCQPCAVHYDFVGSYERLEADANQVLEWVRAPPHVRFPARQAWYRPASPESLHYHLCNVPRALLQD
VLPKYILDFSLFAYPLPNVTKEACHQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_028117

ORF Size: 1131 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_028117.3, NP_082393.3

RefSeq Size: 2089 bp

RefSeq ORF: 1131 bp

Locus ID: 72136

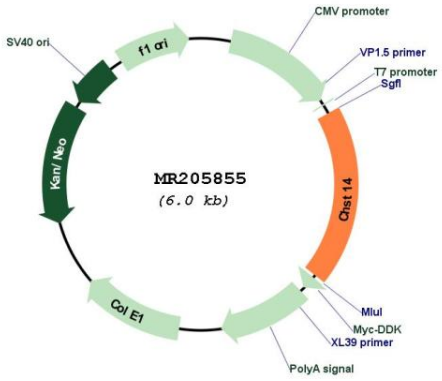
UniProt ID: Q80V53

Cytogenetics: 2 E5

MW: 43.1 kDa

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]

Product images:



Circular map for MR205855