

Product datasheet for **MG218046**

Hgsnat (NM_029884) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hgsnat (NM_029884) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hgsnat
Synonyms:	9430010M12Rik; AW208455; D8Ertd354e; Tmem76
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG218046 representing NM_029884
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGGGCGGGTCGAGCTCGCGCAGGCGCCGGGCAGAAGAGCGCAGCTCGGCTGCGGGGACAGAGCGCA
 ACTCCCGAGAGAGGCTGTGGGAGGCATGGGCGCGGGCCCGCGCTGGCAGCGCTGCTGCTGGCCGGGTC
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 CGAGGTGTTGGAGAACTACTTCCCTTCCAGTGGAAAGCTGGCGGATGAGCAGTCACACAAAGAGCATCTC
 ATTCAGAACATAGTCGCCACGGCTCTCTGGGTGCTCATCGCTACGTGCTCTATAAAAAGAAGCTGTTTT
 GGAAAATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG218046 representing NM_029884
Red=Cloning site Green=Tags(s)

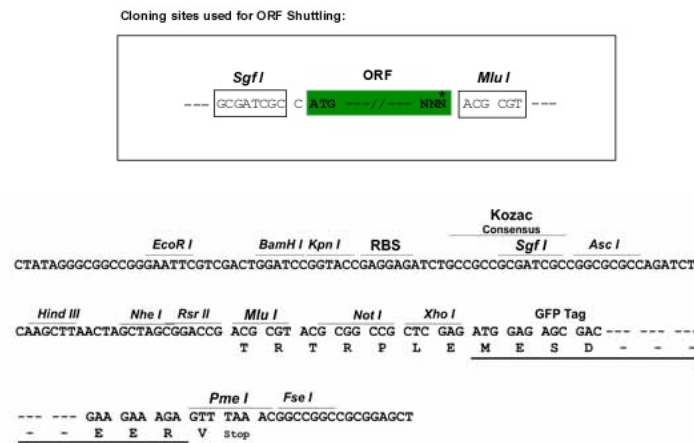
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EERAACRLEYKFGEFGNYSLLVQHASSGANKIACDIIVNENPVDSNLPVSI AFLVGLALIVAVSLRLLL
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NPNYCLGPLSWDKVRIPGVLQRLGVTYFVAVLEFFFWKVPVDSCTLESSCSFLRDITSSWPQWLITLTL
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PEGLVGTINSIVMAFLGVQAGKILVYYKDQTKAILTRFAAWCCILGLISIVLTKVSANEGFIPINKNLWS
ISYVTTLSCAFFILLILYPVVDVKGLWTGTPFFYPGMNSILVYVGHEVLENYFPFQWKLADQSHKEHL
IQNIVATALWVLIAYVLKYKKLFWKI
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029884

ORF Size: 1968 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_029884.1](#), [NP_084160.1](#)

RefSeq Size: 2679 bp

RefSeq ORF: 1971 bp

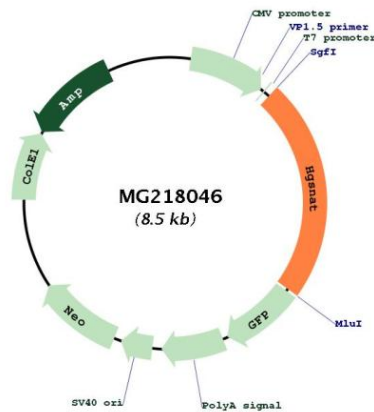
Locus ID: 52120

UniProt ID: [Q3UDW8](#)

Cytogenetics: 8 14.22 cM

Gene Summary: Lysosomal acetyltransferase that acetylates the non-reducing terminal alpha-glucosamine residue of intralysosomal heparin or heparan sulfate, converting it into a substrate for luminal alpha-N-acetyl glucosaminidase.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG218046