

## Product datasheet for MR227433

### Nhs (NM\_001081052) Mouse Tagged ORF Clone

#### Product data:

|                           |                                                                                |
|---------------------------|--------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                            |
| Product Name:             | Nhs (NM_001081052) Mouse Tagged ORF Clone                                      |
| Tag:                      | Myc-DDK                                                                        |
| Symbol:                   | Nhs                                                                            |
| Synonyms:                 | Gm48; Gm389; Nhs1; Xcat                                                        |
| Mammalian Cell Selection: | Neomycin                                                                       |
| Vector:                   | pCMV6-Entry (PS100001)                                                         |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                           |
| ORF Nucleotide Sequence:  | >MR227433 representing NM_001081052<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCCTTCGCCAAGCGGATCGTGGAGCCGAGTGGCTTTGCCGGCAGCGGCCCGCGCCCGGCCAG  
 ATGAGGACACGAGTGGAGGCAGCGTTGAGCCGCCCGCCCTGCAGCCGCTGGCCGGCGGAAGAGGC  
 CGAGGCACCGGAGCCAGAAGAGCCTCTCGTGTGCCCCCTGCGCCTCTCCACTGCCACCTCTGCCGCC  
 TCTTTGCCGGCGCCGGCGAGCAGGATCAGCAGCCACCCAGCGAAGCGCGGGAGGCCGGGAGGAGAGCG  
 TGGCGGGGTCTCGGAGGCAGCATCGGCCCCAGGCGAGACGTCCGAGGCTTCAGCCGAGGCTGTGCTGCT  
 CATGTTAGACCTGTGCGCGGTACGAACGCTGCGCTGGCCAGGGTCTCCGGCAGCTCTCAGACGTAGCC  
 CGGCACGCGTGCAGCCTCTTCCAGGAGCTCGAGAGCGACATCCAGCTTACTACCGCCGTGTCTGGCGC  
 TGCAGGGCAAGCTCGGTAGCGTGCAGCGCTCCTCAGCACGTTGGACCCCAAGCAGGAGGAGTGCCTGT  
 CTCCAACCTGGACATCGAGAGCAAGTTGAGTGTATACTACCGTGCACCATGGCACCAACAGCGAAACATC  
 TTCCTCCAGCGACCGAGCCACCCTGTGTAGAAGAGCTGCACCGCATGCCAGACAGAGTCTGCAAGCCC  
 TTCGTAGAGAACCCGGAGCCGGAGTGATCGCAGAGAGCAAAGAGCTGCTGCTCCCCTCCCAGTGTG  
 TCCACCACTACCGCCTACCTCCAGCTCACAGCCAGAGGAGGCGCGAGGCCAAGGACCGCCACTTCCTA  
 ACGTCCCCTCTCCAGAGGATGAAGACACAGATGCCATGCTAGGCGAGAGGCCGAAAAACCAATCCACA  
 ATGTTCCCTCTACACTGGATAAGCAGACCAACTGGAACAAAGCACTACCTCTCCCACTCTGAGGAGAA  
 GATGAAACAAGATGCCCAAGTGATTCTTCTTGTCATTCATCCATCAATGTCACCGGTGTTGGTTTTCGAC  
 AGAGAAGCAAGTATACGCTGTTCTCTTGTTCATTCAATCTGTGCTACAGAGGAGACGAAAACTGAGGA  
 GAAGGAAAAAATCTCTGGGATTCAGAGAGTTCAACAAGAAATAGATTCTGATGAATCACCAGTGGC  
 CAGGGAAGGAATGTGATTGTGCACACAAACCCAGACCCCTCCAACACTGTCAATAGGAGGTCCGGAACC  
 AGGGAAGTCTGAATGTCAAAGTGAAGATATTCTGATTGCTGCCCATCCAGAGGAGAAATAGAGCTCAA  
 GGGGTCAAAGCATCGCAGCTTCCCTTTCTCATTACGCTGGCAACATCTCTGCCCTGGCAGACAAAGGCGA  
 TACCATGTTTACTCCTGCTGTCGTCAGCAGCGTACAAGATCTCGGAGCCTTCTCGGAGGGAAATAGAGGT


[View online »](#)

GGAGATGCTGAACCCAAAGTAGGTGCTAAACCTCAGCATTTGAAGAAGGAGAACGTTTCGTGGGTGACC  
 ATGAAAGAACCCCTAATGACTGTAGCGAAGCTCCAAGCAGCCCAAGTACACAGGAACACCAGCCTGCTTT  
 GGGCCTAGCATGTTCTCAACATCTTACAGCCCTCAGCAAAAGTTAAGTGAGAGAGGGAGATCACGTCTG  
 TCCCGAATGGCGGCTGACTCTGGAAGCTGTGACATCTCTTCCAACCTCGGACACCTTTGGAAGCCCGTCC  
 ATTGCATTTCCACAGCTAGTGTCTCTTAGCAGCCACATGGACCAGAAAGAAGACCACCACTCATCCAG  
 TGGTAACCTGGAGTGGGAGCAGCTCTACATGCCCCGTACAGACCTCAGAGACAATCCCTCCTGCAGTTCT  
 CCTCCCCTCAGGGCTCTTCTACTGTGACTCAGAATTGTCACTGAACACTGCTCCTAATGCTAATGAAG  
 ATGCCAGTGTCTTTGTGACAGAACAGTACAATGACCACTTGGATAAAGTAAGAGGCCACCGGACAAACTC  
 CTTTACTTCCACTGTTGCAGATCTGCTGGATGACCCCAACAACAGCAATACAAGTGACAGTGAGTGAAT  
 TATCTACACCACCATCATGATGCATCTTGCCGCCAAGATTTTAGTCTGAGCGTCCGAAGGCAGATAGCT  
 TGGGATGCCCAAGTTTACAAGCATGGGCACCTATGACAGCTTTCTGGAAAAGTCTCCTTCAGACAAAGC  
 AGATACTAGTCTCATTCTCAGTGGACACTGAAGTACTATACCTCGATGCATTTGACTGTGGTCTC  
 AAAGGTAATAAGACCTATGTCTGTCACTATGCAGGCCTAGGCCCAGAGAATGGTCAGGGTGTGGGGTTC  
 CTCCTGCTCTCCGACTGTGCCTGGCAAGAATACTTAGACCACAGGAGGCAGGGGAGACCAAGCATCTC  
 TTTGAGAAACCAAGGCAAGCAACTCCACCTAAACGTAGCTCATCTTGAGAAAATCTGATGGAAT  
 GCAGACATTTCTGAGAAGAAAGAACCAAGATAAGCAGTGGTCAGCACCTGCCTCAGATTCCAGGGAAA  
 TGAAGCTGCCTCTTGATTCTCCAACACGCCTTCTCGTGTGGAATGCAATCTGCCTGCAAGAGCTGGA  
 CTCTTCTTGATAAACCCAGAGTGAACATGCTATTAAGGAACCTCAGTTGGACACTCCAGACATTTACCA  
 TTCAAAGATGAAGGTGCTGAATCAACACACTATGCAGACCTCTGGCTTCTGAATGACTTGAAAACGAATG  
 ATCCTTACAGATCCTTATCTAATTCTAGCACTGTACGGGTACACAGTGATTGAATGCATCAAACTCTC  
 AGAGAGTTCTGAATCCCAACATCCCAATCAGAATCAAGAGCAACCACTCCATCTCTTCTCAGTTGAC  
 AATGAATATAAACTGGCTTCACCAGAAAAGCTGGCTGGCTTAGCATCTCCATCAAGTGGCTACTCAAGCC  
 AGTCAGAAACGCCAACCTCCTCTTTCCCTACAGCTTTCTTTTCAGGACCATTGTCTCTGGAGTAGCAA  
 AAGAAAGCCTAAAGTCCAGAAAAGGAAATCCTCACTACAGCAGCCATCTTTAAAGATGGTGCCCTATCA  
 CTGAGTAAAGATTTTGAATACCAATTATACCTCCTTCTCATCTTGACCTAAGTGCTCTTCATGTTTGA  
 ATAAACCATTCACCACCGTCACCCACTGCATGTTTTTACTCATAAGCAAAACACAGTCGGAGATATGCC  
 GAGATCAATCCTGCACCGTCTCTTGCAATTACACCAACAGTTCTCAAGTCTGTCAACCTGAGGTCCATC  
 AGTAAGTCTGAAGAAGTAGGCAAAAGGAGGGCAATAATACAGATCTCCCTACTTAGAAGAGAATGCTG  
 CCACAGCGGCTCTGTGGCCTCTTATCTCAAGTAAGGCAAGGCCACACACAGCAAGAAATCAATATC  
 ACGCCAGTATTCTGCTGAAGATACCTCCTGCCCTTTTAGATTCTCTGTAGCTGAGATGGGACCAGAG  
 AAGCATTTGGAAGAAGCACTAATTTTGATGGAAGAGTCATGGTGATCCAGAACTGCAACCTCAGCTA  
 GCAGCAATCTTCAGATTCAATGTGATGAAAGAACAAATACAGATGGAAGCGAGCTTATCTCAGAAAA  
 CATACTAAGTAAGAAGTGTGGATTTTCAACAGGATTTAGAGGGTGTCTGCTTCCCGCCCAAGTGATTTG  
 GGATGATAAATGATACAGTATGGAGCTAGTCCAGATGGCACTGTACAGCAAGGACAGAAGGCACCCCTCTG  
 GAGTCAGGGAAGAAGGTGGAACCCAGAAATCTGTGGATGGAATCACACTTCAAGCCAATTCATCAACTAG  
 AGTAACAGACATAAGCAGTCAATATAAGCATCAGCGTGTATAAGCCGCCACCATGACAAAGTGCCCTGTG  
 ACTATCCGCCATGAGTCAGAGATGTCAACTGTAATTCATTCCCTGAAAAATGTTCTGAACAGGAAAATA  
 TTGCTTCAGGTATTTACCCCAAAGTGCCCTCTGATAACAGCAGAGCAGAGGAGACCAAGGAAGTATGGA  
 CGAGACTTCATTGAAAGAATCCTCACCAAGTGATGACTCCATCACTTCACTACTCAGTGAGGACTCTCAA  
 GCTGGAGCTGAGGGTGTGTTGTGTCTCCAAACAAACCTCGAACCCTGAGGACCTATTTGCAGTCATTC  
 ACAGATCCAAGAGGAAAGTACTTGGAAGAAAAGATTCTGGGGATATGTCTGTGAGAAGCAATCAAGAGT  
 TCCCTTGGTAGCAGTAGCAGCAGTGCCAAATCTGTCACTTCAACCAGCAGCAATGTGACAGCTGGGACT  
 AGCCAGAGGTCTCCTGGTCTCATCTACAGAAATGCCAAAAGTCCAACACATCCAATGAAGAGTTTAAGC  
 TGCTGCTCCTCAAGAAAGGCAGTCGTTCAAGATTAGTTACCGCATGTCTGCTACTGAAATCCTGAAGAG  
 CCCGGTCTGCCAAGCCTCCTGGGAGTTTACTGCAGAGTCCCCACAAAGCCCCGATGATACCCATCAG  
 GGCACACCTGGGACTGAAGCACTGTCTCCTGTGCGCGTGTCAACACAGTCAATGCGGAAGGGTCTCT  
 CCTCGAAGAACTTTGCAACCTCAGCATCAGCACGGGTGGACGCTCCCGGTCCCACCTGTGGCCAGCAG  
 CAGCCGCTACAGTGTCCGCTGCCGGCTGTACAATACTCCAATGCAGGCCATCTCTGAGGGAGAGACTGAA  
 AACTCTGATGGGAGCCACATGATGACCGATCCTCCAGAGCTCCACC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR227433 representing NM\_001081052  
 Red=Cloning site Green=Tags(s)

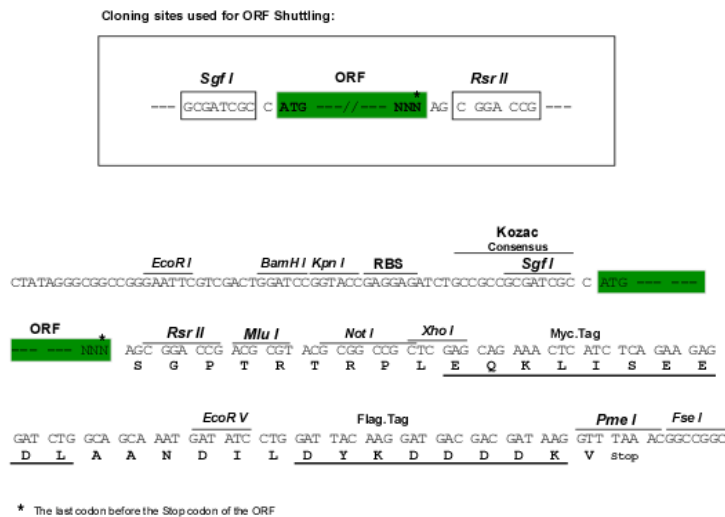
MPFAKRIVEPQWLCRQRRPAPGPDEDTSGGSVEPPPLQPPGRREEAEPEPEEPPRVPPAPLPLPPLPP  
 SLPAPAEQDQPPSEAREAGEESVAGVSEASAPGETSEASAEAVLLMLDLCAVSNAALARVLRQLSDVA  
 RHACSLFQELESIDIQLTHRRVWALQKLGSVQVRVLTLDPKQEAQVPSNLDIESKLSVYYRAPWHQQRNI  
 FLPATRPPCVELHRHARQSLQALRREHRSRSDRREQRAAAPLPIAAPPLPAYPPAHSQRRREAKDRHFL  
 TSHSPEDEDTDAMLGQRPKNPIHNVPSTLDKQTNWNAKPLPTPEEKMKAQVIVSSCIIPINVTGVGFD  
 REASIRCSLVHSQSVLQRRRKLRRRKTISGIPRRVQQEIDSDSPVARERNVIVHTNPDPSNTVNRSGT  
 RDSECQTEDILIAAPSRRRIRARQGSIAASLSHSAGNISALADKGMTFTPVVSSRTRSRLPREGNRG  
 GDAEPKVGAKPSAFEGERFVGDERTPNDCSEAPSSPSTQEHQPALGLACSQLHSPQQKLSEGRSRL  
 SRMAADSGSCDISSNSTFGSPVHCISTASVLLSSHMDQKEDHQSSGNWGSSTCPSQTSETIPPAAS  
 PPLTGSSHCDSELSLNTAPNANEDASVFTEQYNDHLDKVRGHRTNSFTSTVADLLDDPNNSTSDSEWN  
 YLHHHHDASCRQDFSPERPKADSLGCPSTSMGTYSFLEKSPSKADTSSHFSVDTEGYTSMHFDGCL  
 KGNKTYVCHYAGLGPENGQGVGPPALPDCAWQEYLDHRRQGRPSISFRKPKAKPTPPKRSSSLRKSDGN  
 ADISEKKEPKISSQHLPHSSREMKLPLDFSNTPSRVENANLPAKLDSSWINQSEHAIKEPQLDTPDISP  
 FKDEGAESTHYADLWLLNDLKTNDPYRSLSNSSTATGTTVIECIKSPESSESQTSQSESATTPSLPSVD  
 NEYKLASPEKLALASPSGYSQSETPTSSFTAFFSGPLSPGGSKRKPVKPERKSSQLQPSLKDGLS  
 LSKDFELPIIPSHLDLSALHVLNKPFFHHRPLHVFTHKQNTVGMPSRNPAPSLAITPTVLKSVNLRSI  
 SKSEEVQKQEGNNTDLPYLEENAATAASVASLSPSKARPHATAKKSISRQYSAEDTLLPFLDSSVAEMGPE  
 KHLEKNPNFDGKSHGDPETATSASSNLPSNMVKEQIQMESELIENILSKNCGFSTGFQVRSASRPSDL  
 GSKMIQYGASPDGTVQQGQKAPSGVREEGGKPEVDGITLQANSSTRVTDISSQYKHQVRSRHDKVPV  
 TIRHESEMSTVNSFPEKCEQENIASGISPQASDNSRAEETQGSMDETSLKSSPSDDSIITPLSEDSQ  
 AGAEGVFVSPNKPRTTEDLFAVIHRSKRKVLGRKDSGDMSVRSKSRVPLGSSSSANSVTSPSSNVTAGT  
 SQRSPGLIYRNAKKSNTSNEEFKLLLLKKGRSDSSYRMSATEILKSPVLPKPPGEFTAESPQSPDDTHQ  
 GTPGTEALSPLSPCSPRVNAEGFSSKNFATSASARVGRSRVPPVASSRYSVRCRLYNTPMQAISEGETE  
 NSDGSPPHDDRSSQSST

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9105\\_e08.zip](https://cdn.origene.com/chromatograms/mm9105_e08.zip)

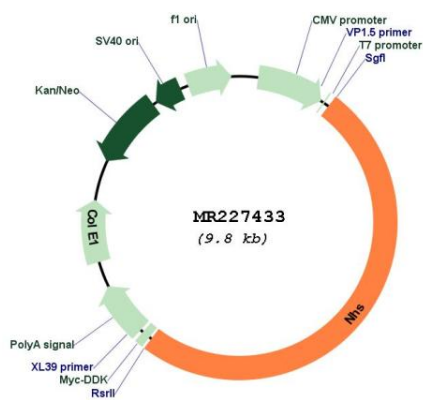
**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ACCN:</b>                  | NM_001081052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ORF Size:</b>              | 4878 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>                                                                      |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                    |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <a href="#">NM_001081052.2</a> , <a href="#">NP_001074521.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 5319 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 4881 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 195727                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | X 74.17 cM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MW:</b>                    | 176.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Product images:



Circular map for MR227433