

Product datasheet for MC212112

Nhlrc1 (NM_175340) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nhlrc1 (NM_175340) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nhlrc1
Synonyms: AI505271; B230309E09Rik; EPM2B
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC212112 representing NM_175340
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGGATCGCC

ATGGGGGAGGAGGCGACGGCGGTGGCAGCGCTGGGGTGGCCCGGAGCTGGTGGGGAGGCGGAGGTCA
 GCCTGTGGAGTGCAAGGTGTGCTTCGAGAGGTTGGCCACTGGCAGCAGCGGCCCGCCGCAACCTGCC
 CTGCGGCCACGTGGTCTGCTTGGCCTGTGTCGCGCTCTCGCGCACCCGCGGACGCTGGGCTCGAGTGT
 CCCTTCTGCCGCGGGCCTGCCGAGCCTGTGACACCAGCGATTGCCTGCCGGTGTGACCTCCTGGAGC
 TCCTGGGCTCCACCCTCCACGCGTCCCCGGCTGCCCTAGCGCCGCCCTTCGCGCCGGGGACTCTCAC
 CTGCTACCACGCTTCGGCGGGTGGGGGACCCTAGTGAACCCACAGGGCTTGCCTGTGCCCAAGACC
 GGACGGGTAGTGGTCGTGACGACGGGAAGAGACGGGTCAAGATCTTTGACTCCGGAGGAGGAGGTGCAC
 ACCAGTTTGGAGAAAAGGGGACGCAGCGCACGACGTGAAGTACCCACTGGATGTCGCCGTCACCAACGA
 CTGCCATGTGGTTGTACCGACGCTGGCGACTGCTCCCTCAAAGTGTGGATTCTTTGGCCAGATCAAG
 CTGATGCAGAGGCAGGGACTTTCACCTGTGGAAGCGGATTTCCCTGAAGGGTCTTCGGAGGATTGA
 GAGTTTGAAGCTCACCTATGCAGTCCCGTGGGTGGAGTGTGATGGCTCACGGGGGCCATCGCGGTC
 CTAGAGCATCCTTGTGCCTTTGGGAGGACTGGCTGTAACAACAAGGGTGAAGGTGTTCAACTCCACTA
 TGCAGCTGATTGGCCAGGTGGATAGCTTCGGGCTGAACCTCCTCTTCCCTCCAAAGTAACTGCCTCTGC
 TGTGACCTTCGATCACCAAGGAAACGTGATTGTTGCTGACACCTCTGGTCCAGCCATCGTCTGTTGGG
 AAACCCGAAGAATTCCAGCCCTGAAGCCTATAATCACTACGGCCTCTCCGCTCTGTGGCACTGGCCT
 TCACCAAGGAGAATTCTTCTTGTGCTGGATACTGCATCCCATTCTATAAAGTCTTTAAAGTATGGA
 GGGCAACGGAGGGTGA

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Restriction Sites:	Sgfl-RsrII
ACCN:	NM_175340
Insert Size:	1206 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:	<ol style="list-style-type: none">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_175340.4 , NP_780549.1
RefSeq Size:	2308 bp
RefSeq ORF:	1206 bp
Locus ID:	105193
UniProt ID:	Q8BR37
Cytogenetics:	13 A5
Gene Summary:	E3 ubiquitin-protein ligase. Together with the phosphatase EPM2A/laforin, appears to be involved in the clearance of toxic polyglucosan and protein aggregates via multiple pathways. In complex with EPM2A/laforin and HSP70, suppresses the cellular toxicity of misfolded proteins by promoting their degradation through the ubiquitin-proteasome system (UPS). Ubiquitinates the glycogen-targeting protein phosphatase subunits PPP1R3C/PTG and PPP1R3D in a laforin-dependent manner and targets them for proteasome-dependent degradation, thus decreasing glycogen accumulation. Polyubiquitinates EPM2A/laforin and ubiquitinates AGL and targets them for proteasome-dependent degradation. Also promotes proteasome-independent protein degradation through the macroautophagy pathway. [UniProtKB/Swiss-Prot Function]