

Product datasheet for **MG208956**

Ndnf (NM_172399) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndnf (NM_172399) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ndnf
Synonyms:	A930038C07Rik; epidermacan
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208956 representing NM_172399
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGAGCTGTTCTACTGGTGTGCTGTGCCTCCTGTTACCACTCACTTCAAGGACCCAGAAGCTGCCCA
 CCCGAGATGAGGAACCTTTTTCAGATGCAGATCCGGGATAAGGAATTTTTCACGATTCATCTGTGATTCC
 AGATGGAGCTGAAGTCAGCAGTTATCTCTTTAGAGATACACCTAGAAGGTATTTCTTCATGGTTGAGGAA
 GATAACACCCCACTGTCAGTCACAGTGACACCTTGCAGTGACCTTTGGAGTGGAAGCTTAGCCTTCAGG
 AGCTGCATGAGGGGTCCAGTGACAGTGGATCAGGTGACCCAGAATACTTGACCAGCAGAAGCAGCAGAT
 GACTGATGTAGAGGGCACAGAATACTTCTCTACAAGGGCAATGATGTAGAGTATTTCTGTCTTCAAGT
 TCCCCATCTGTTTGTATCAGTTGGAGCTTCTTCAACAGAGAAAGACACACATTTCAAAGTATATGCCA
 CCACCACACCAGAATCTGACCAGCCATACCCTGAATTACCATATGACCCAGAGTTGATGTGACCTCCTT
 TGGACGTACCACAGTCACTTTGGCCTGGAAGCCAAGCCCTACAGCCTCTATATTGAAACAACCCATAGAG
 TACTGTGTGGTCACTCAACAAGGAGCACAAATTTCAAAGCCTCTGTGCAGCAGAAACAAAGATGAATGCAG
 ATGATGCCTTCATGGTGGCGCCAAACCTGGTCTAGACTTTAACCCTTTGACTTTGCCCATTTTGGATT
 TCCAACAGATAATTTGGGTAAAGATCGAAGCCTCCTGGCAAAGCCTTCTCCCAAAGTGGGGGCCATGTC
 TACTGGAGGCCCAAGGTTGACATTCAAAAATTTGCATAGGAAATAAAAAATTTTACAGTCTCTGACC
 TGAAGCCCGATACCAATACTACTTTGATGTCTTCATGGTCAATACCAACACCAACATGAGTACAGCTTA
 TGTGGGTGCCTTTGTGAGGACCAAGGAGGAGGCAAAACAGAAGACAGTGGAACTCAAAGACGGGAGGGTC
 ACAGATGTGTTTGTAAAAAGGAAGGGGAAAAAGTTTCTACGGTTTGCTCCAGTCTCCTCTACCAAAAGG
 TCACGTTCTTTATTCATTCTTGTATGGATGCCGTTCAAGTCCAAGTGAGAAGAGATGGGAGGCTGCTTCT
 GTCACAGAATGTGGAAGGCATTTCGGCAGTTTCAGTTAAGAGGAAAACCCAAAGGAAAATACCTCATTCTGA
 CTGAAAGGCAACAGGAAAGGAGCATCAAAGCTGAAAATACTGGCGACCAACAGGCCAGTAAAGCATGCAT
 TCCCCTCTCTCCGAAGACACAAGAATCAAAGCTTTTGACAAGCTACGTACCTGCTCTTCAGTTACGGT
 GGCATGGCTTGGACCCAAAGAAAGGAGAAAGTTTGTATCTACAGAAAGGAAGTGGATGGAAGTACAGT
 GAAGACCAGAAGAGAAGAGAGCAAAACAGTGCCTAGGACCAGACACAGAAAGAAATCAGAGAAGGTCC
 TTTGCAAATACTCCACAGCCAAAACCTGCAGAAAGCAGTGACTACAGAGACAATCAGAGATCTGCAGCC
 TGGGAAGTCTTACCTGCTGGATGTTACGTCGTAGGACATGGGGGACACTCTGTGAAGTATCAAAGTAAA
 ATTGTGAAAACAAGGAAGTCTGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208956 representing NM_172399
 Red=Cloning site Green=Tags(s)

MELFYWCLLLCLLLPLTSRTQKLPRDEELFQMQRDKEFFHDSVIPDGAEVSSYLFRDTPRRYFFMVEE
 DNTPLSVTVTPCDAPLEWKLQELHEGSSADGSGDPELLDQKQKQMTDVEGTELFQSYKNDVEYFLSSS
 SPSGLYQLELLSTEKDTDFKVVYATTTPESDQPYPELPYDPRVDVTSFGRTTVTLAWKPSPTASILKQPIE
 YCVVINKEHNFSLCAAETKMNADDAFMVAPKPLDFNPFDFAHFGFPTDNLGKDRSLLAKPSPKVGRHV
 YWRPKVDIQKICIGNKNIFTVSDLKPDQYQYFDFVMVNTNTNMSTAYVGAFAVRTKEEAKQKTVELKDGRV
 TDVFKRKGGKFLRFAPVSSHQKVTFIHSMDAVQVQVRRDGRLLLQNVGIRQFQLRGKPKGKYLIR
 LKGNRKGASKLKILATTRPSKHAFPSLPEDTRIKAFDKLRTCSSVTVAWLGTQERRKFCIYRKEVDGNYS
 EDQKRREQNQCLGPDTRKKSEKVLCKYFHSQNLQKAVTTETIRDLQPGKSYLLDVYVVGHHGHSVKYQSK
 IVKTRKVC

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



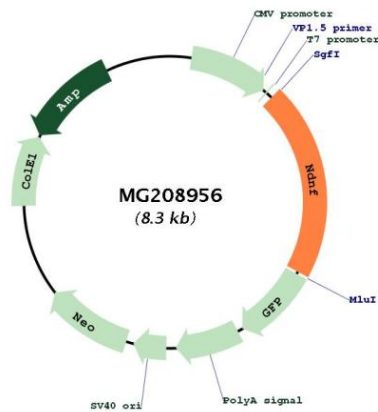
ACCN:	NM_172399
ORF Size:	1704 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_172399.3 , NP_765987.2
RefSeq Size:	4684 bp
RefSeq ORF:	1707 bp
Locus ID:	68169

UniProt ID: [Q8C119](#)

Cytogenetics: 6 C1

Gene Summary: Promotes neuron migration, growth and survival as well as neurite outgrowth (By similarity). Promotes matrix assembly and cell adhesiveness. Promotes endothelial cell survival, vessel formation and plays an important role in the process of revascularization through NOS3-dependent mechanisms (PubMed:24706764).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG208956