

Product datasheet for **MG215946**

Ndor1 (NM_001082476) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndor1 (NM_001082476) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ndor1
Synonyms:	4930447P04Rik; Ndor; NR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG215946 representing NM_001082476
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGGTTCCACAGCTCCTGGTGTCTTTTCGGCAGCCAGACTGGTACAGCCAGGACGAGGCCGAGAGGC
 TGGCCGTGAGGCCCGGCCGCGGCTAGGTTGCCCGTGCAGGCTTTGACTCTTACTCCGTGGCGAA
 TCTCATTAGGGAGCCCTGGTATATTTGTTTGTGCGACCACAGGCCAAGGAGACCTCCTGACAACATG
 AAGAACTCTGGAGTTCATATTCGGAAGAGCCTGCCGTCCAGCTCCCTCTGTCAAATGGATTTGCTG
 TCCTAGGCCTCGGGATTCTCATATGCCAAGTCAACTTTGTGGCAAGAAGCTACATCGTAGGCTGCT
 GCAGCTAGGAGGCAGTGCCTTCTGCCCCATGTCTGGGTGATGACCAGCATGAGCTGGGCCTGATGCT
 GCCATTGACCCCTGGGTAGGAGATCTTTGGGAGAAGATAATGGTTATGTACCCAGTACCCCTTGACATTC
 CTGAGATTCCTCATGGAGTCCCCTTGCCTCCAAGTTCATCTTTCAGTTTCTTCAGGAGTCCCCAGCAT
 AGGGGCTGAGGAGCTCAACATAGCCAGCTCAGCCCTCAGACACCCCATCAGAGTTACAGCCCTTCTCTG
 GCACCTGTGATACCAACAGAGGGTCACTGGCCCCAACACTTTCAGGATGTTCCGGCTGATTGAATTTG
 ACATTACAGACTCCAATATCAGCTTTGCTGCTGGTGTATTTGATTTCATTTTGCCTCTAACTCGGAGGC
 CCACACCCAGCAGTTCGCCAAGTGTGTGCCTGGACCCCAATCAGTTTTTACACTTAAGCCACGGGAA
 CCAGGTGTCCCTGACCCACCAGGGCTGCCTCAGCCCTGTACTGTGTGGAACCTCGTGTCCAGTACTTGG
 ACATTGCCAGTGTGCCCCGCCGTTCTTCTTTGAGCTCCTGGCTGTCTCTCCAAACATGCGCTGGAGCG
 AGAGAAGTGTGGAATTGAGCTCTGCCAGAGGTGAGGAAGAGCTCTGGGAGTACTGCAGTCGGCCCCGC
 AGAACCTCTTGGAGTGTATGCGACTTCCACATACAGCGGGTCCATTCTCCAGACTACCTTTTGG
 ACCTAATCCCTCGGATCCGCCACGGCCCTTCTCCATTGCTTCTCCCTACTGGCTACCCAGGAGGCT
 ACAGATCCTTGTGGCTGTGGTAAAGTACCAGACTCGTCTGAAGGAGCCCCGCCATGGTCTCTGCTCCTCC
 TGGCTAGCATCCCTGAATCCTGGCAAGCAGGACCTGTCCGGGTGCCTCTGTGGGTACGTCTGGGAGCC
 TCGTGTCCCAAAAACACCAGACACACCCATTATCATGGTGGGGCTGGAAGTGGTGTGGCCCCCTCCG
 AGCAGCCATTGAGAACGAGTGGCTCATGGCCAACTGGAAGTCTTGTCTTTGGCTGCCGCCAGCGG
 GATCAGGACTTCTACTGGCAGACTGAATGGCAGAAGCTAGAGCAGAAGGGCTGGTGACCCTGGTTACAG
 CCTTCTCCCGGAGCAGGAGCAGAAGGTATATGTGCAGCACCGGCTTCGAGAGCTGGGGCCACTTGTCTG
 GGAGCTGTGGATGGCAAGGTGCCTACTTCTACCTAGCAGGCAATGCTAAATATTTGCCTACGGATGTT
 TCGGAAGCCCTTATGTCCATTTTCAAGAAGAAGGACACTCTCCACTGCAGATGCATCTGCCTACCTTG
 CTAGGCTCCAGCAGACTGCGCTTCCAGACTGAAACCTGGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG215946 representing NM_001082476
 Red=Cloning site Green=Tags(s)

MQVPQLLVLFQSQTGTAQDEAERLGREARRRRLGCRVQALDSYSVANLIREPLVIFVCATTGQGDPPDNM
 KNFWRIFFRKSLPSSSLCQMDFAVLGLGDSSYAKFNFAKKLHRRLLQLGGSALLPPCLGDDQHELGPDA
 AIDPWVGLWEKIMVMYPVPLDIPEIPHGVPKSKFIFQFLQEVPSIGAEELNIASSAPQTPPELQPFLL
 APVITNQRVTGPQHFQDVRLEIFDITDSNISFAAGDVVFILPSNSEAHTQQFCQVLCVLPNQFFTLKPRE
 PGVDPGGLPQPCTVWNLVSQYLDIASVPRRSFELLACLSQLALEREKLELSSARGQEELWEYCSRPR
 RTILEVLCDPHTAGAIPPDYLLDLIPRIRPRAFSIASSLLAHPRLQILVAVVKYQTRLKEPRHGLCSS
 WLASLNPQAGPVRVPLWVRPGLVFPKTPDTPIMVGAGTGVAPFRAAIQERVAHGQTGNFLFFGCRQR
 DQDFYQWTEWQLEQKQWLTLYTAFSREQEYKVVYQHRLRELGPLWELLDGQGYFYLAGNAKYLPTDV
 SEALMSIFQEEGRLSTADASAYLARLQTLRFQETWA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001082476

ORF Size: 1794 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_001082476.2](#), [NP_001075945.1](#)

RefSeq Size: 4757 bp

RefSeq ORF: 1797 bp

Locus ID: 78797

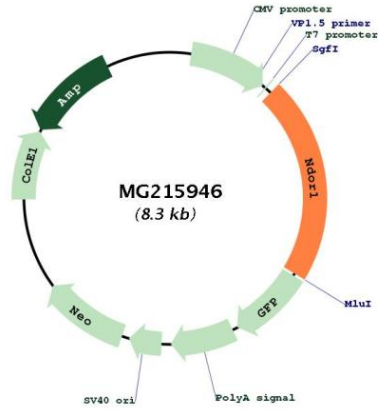
UniProt ID: [A2AI05](#)

Cytogenetics: 2 A3

Gene Summary:

Component of the cytosolic iron-sulfur (Fe-S) protein assembly (CIA) machinery. Required for the maturation of extramitochondrial Fe-S proteins. Part of an electron transfer chain functioning in an early step of cytosolic Fe-S biogenesis. Transfers electrons from NADPH to the Fe/S cluster of CIAPIN1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215946