

Product datasheet for **RG226636**

NDOR1 (NM_001144026) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDOR1 (NM_001144026) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NDOR1
Synonyms:	bA350O14.9; CIAE1; NR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226636 representing NM_001144026
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGCCCGCAGCTTCTGGTCTCTCGGCAGCCAGACAGGCACGGCTCAGGATGTGTGGAGAGAC
 TGGTTCGCGAGGCCCGGCCCGCGCTTGGCTGCCGGTGCAGGCCCTGGACTCTACCCGGTGGTGAA
 TCTGATTAACGAGCCCTGGTATATTTGTTTGTGCAACTACAGGCCAAGGAGACCCCTGACAACATG
 AAGAACTCTGGAGTTTATATTCGGAAGAACCTGCCCTCCACTGCCCTCTGTGAGATGGACTTTGCCG
 TCCTGGGCTCGGGGACTCCTACAGCCAAGTTCAACTTCGTGGCCAAGAAGCTGCACCAGCGCTACT
 GCAGCTTGGGGCAGCGCCCTCTGCCGTGTGCCTGGCGATGACCAGCATGAGCTGGGCCCCGACGCT
 GCTGTGGACCCCTGGCTGCGAGACTTGTGGACAGGGTCTGGGGCTGTACCCGCCGCTCCGGGCTCA
 CTGAGATCCCTCCCGAGTCCCCTGCCCTCAAGTTCACCTGTCTTCTCCAAGAGGCCACCCAGCAC
 GGGCTCTGAGGGCAGCGGGTAGCTCACCCGGCTCTCAGGAGCCCCGTGAGAGTGAAGCCCTTCTTA
 GCACCATGATCTCAACAGAGAGTACCCGGCCCTCCCACTTCCAGGACGTTCCGGCTGATTGAGTTT
 ACATCTTGGGCTCTGGCATCAGCTTTGCTGCTGGTGTGTTGGTGTGATTAGCCCTCAACTCGGCTGC
 CCATGTCCAGCGTTCTGCCAGGTGCTGGGCTGGACCCTGACCAGCTTTCATGCTGCAGCCGCGGGAG
 CCAGATGTCTCTCCCCACGAGGCTGCCCCAGCCCTGCTCCATGCGGCACCTCGTGTCCCACTACCTGG
 ACATCGCCAGCGTGCCTCGCCGCTCCTTCTTGAACCTCTGGCCTGTCTATCCCTCCATGAGCTGGAGCG
 GGAGAAGTGTGGAGTTCAGTTCTGCCAAGGCCAGGAGGAGCTCTTGAATACTGCAACCGGCCCGC
 AGGACCATCTGGAGTGTCTGTGACTTCCCGCACACAGTCCGCCATCCCTCCGACTACCTGTGG
 ACCTCATCCCCGTTATCCGGCCGAGGGCCTTCTCCATCGCCTCTCGCTGCTGACTACCCCTCAGGCT
 GCAGATCCTCGTGGCTGTAGTGCAGTTCAGACTCGCCTCAAGGAGCCCCGCCGGGCTCTGCTCCTCC
 TGGCTGGCATCCCTGGACCCTGGCAAGGACCTGTCCGGTGCCTCTGGGTGCGGCTGGGAGTCTGG
 CCTTCCAGAGACACCAGACACCTGTGATCATGGTGGGCTGGCACTGGGGTAGCCCCCTTCCGAGC
 AGCCATCCAGGAGCGTGTGGCCAGGGCCAGACTGGAACTTCTTGTTTTTGGTGCCTGCGGGGAC
 CAAGACTTCTACTGGAGGCTGAGTGGCAGGAGCTGGAGAAGCGGGACTGTGACCCTCATCCCTGCT
 TCTCCCGGAACAGCCCCAGCCCTGTTCTTGCCTACAGGAGCAGAAAGTATATGTGCAGACCCGGCT
 CCGGGAGCTGGGTGCTTGTGTGGAACTGCTGGACCAGGGTGCATACTTCTACCTGGCAGGCAAC
 GCCAAGTCCATGCCAGCGGACGCTCTCGGAAGCCCTGATGTCCATCTTCCAGGAGGAGGTGGACTCTGCA
 GCCCGGACGACGCGCTATCTAGCCAGGCTCCAGCAGACACGGCGCTTCCAGACAGAGAGCTGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226636 representing NM_001144026
 Red=Cloning site Green=Tags(s)

MPSPQLLVLFQSQTGTAQDVSERLGREARRRRLGCRVQALDSYPVVNLINELVIFVCATTGQGDPPDNM
 KNFWRIFFRKNLPSTALCQMDFAVLGLGDSSYAKFNFVAKKLHRRLLQLGGSALLPVCLGDDQHELGPDA
 AVDPWLRDLWDRVLGLYPPPPGLTEIPPGVPLPSKFTLLFLQEAPSTGSEQRVAHPGSQEPPESEKPF
 APMISNQRVTGPSHFQDVRLEFDILGSGISFAAGDVVLIQPSNSAAHVQRFCQVLGLDPDQLFMLQPRE
 PDVSSPTRLQPCCSMRHLVSHYLDIASVPRRSFELLACLSHELEREKLLFSSAQGEELFEYCNRP
 RTILEVLCDPHTAAAIPPDYLLDIPVIRPRAFSSIASLLTHPSRLQILVAVVQFQTRLKEPRRGLCSS
 WLASLDPGQGPVRVPLWVRPGLAFPETPDPVIMVPGTGVAPFRAAIQERVAQQTGNLFFGCRWRD
 QDFYWEAEWQLEKRDCLTIPAFSREQPALFSALQEYQVYVQHRLRELGSLVWELLDRQGAYFYLAGN
 AKSMPADVSEALMSIFQEGLCSPDAAAYLARLQQTRRFQETWA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001144026

ORF Size: 1818 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_001144026.3](#)

RefSeq Size: 4877 bp

RefSeq ORF: 1821 bp

Locus ID: 27158

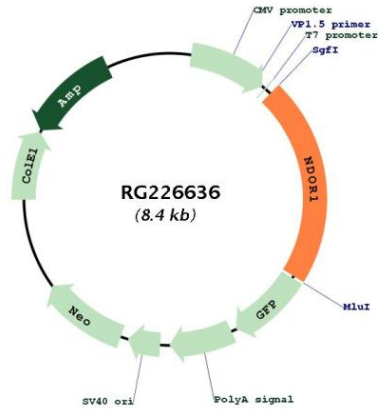
UniProt ID: [Q9UHB4](#)

Cytogenetics: 9q34.3

Gene Summary:

This gene encodes an NADPH-dependent diflavin reductase that contains both flavin mononucleotide (FMN) and flavin adenine dinucleotide (FAD) binding domains. The encoded protein catalyzes the transfer of electrons from NADPH through FAD and FMN cofactors to potential redox partners. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2012]

Product images:



Circular map for RG226636