

Product datasheet for **RG226649**

NDOR1 (NM_001144028) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	NDOR1
Synonyms:	bA350O14.9; CIAEI; NRI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG226649 representing NM_001144028
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCGAGCCCGCAGCTTCTGGTGCTTTCGGCAGCCAGACAGGCACGGCTCAGGATGTGTGCGAGAGAC
 TGGGTGCGAGGCCCGCGCCGGCGGCTTGGCTGCCGGGTGCAGGCCCTGGACTCCTACCCGGTGGTGAA
 TCTGATTAAACGAGCCCTGGTGATATTTGTTGTGCAACTACAGGCCAAGGAGACCCCTGACAACATG
 AAGAACTTCTGGAGGTTATATTCGGAAGAACCTGCCCTCCACTGCCCTCTGTGAGATGGACTTTGCCG
 TCCTGGGCTCGGGGACTCCTCATACGCCAAGTTCAACTTCGTGGCCAAGAAGTGCACCGACGGCTACT
 GCAGCTTGGGGGACGCGCCCTCTGCCCGTGTGCCTGGGCGATGACCAGCATGAGCTGGGGCCGACGCT
 GCTGTGGACCCCTGGTGCAGACTTGTGGGACAGGGTCTGGGGCTGTACCCGCCCTCCGGGCTCA
 CTGAGATCCCTCCCGAGTCCCTGCCCTCCAAGTTCACCCTGCTGTTCTCCAAGAGGACCCAGCAC
 GGGCTCTGAGGGGACGGGTAGCTCACCCGGCTCTCAGGAGCCCCGTCAGAGTCGAAGCCCTTCCTA
 GCACCCATGATCTCCAACGAGAGTACCGGCCCTCCACTTCCAGGACGTTCCGGCTGATTGAGTTTG
 ACATCTTGGGCTCTGGCATCAGCTTTGCTGCTGGTGATGTGGTGCTGATTACAGCCCTCCAACCTCGGCTGC
 CCATGTCCAGCGGTTCTGCCAGGTGCTGGGCTGGACCCTGACCAGCTCTTCATGCTGCAGCCGCGGGAG
 CCAGATGTCTCTCCCCACGAGGCTGCCCGAGCCCTGCTCCATGCGGCACCTCGTGTCCCACTACCTGG
 ACATCGCCAGCGTGCCTCGCCGCTCCTTCTCGAACTCCTGGCCTGTCTATCCCTCCATGAGCTGGAGCG
 GGAGAAGTCTGGAGTTCAGTTCTGCCCAAGGCCAGGAGGAGCTCTTTGAATACTGCAACCGGCCCGC
 AGGACCATCTGGAGGTGCTCTGTGACTTCCCGCACACAGCTGCCGCCATCCCTCCGACTACCTGTTGG
 ACCTCATCCCGTTATCCGGCCGAGGGCTTCTCCATCGCTCCTCGCTGCTGATCCTCGTGGCTGTAGT
 GCAGTTCCAGACTCGCCTCAAGGAGCCCCCGGGGCTCTGCTCCTCCTGGCTGGCATCCCTGGACCT
 GGGCAAGGACCTGTCCGGGTGCCCTCTGGGTGCGGCTGGGAGTCTGGCCTTCCAGAGACACAGACA
 CACCTGTGATCATGGTGGGGCTGGCACTGGGGTAGCCCCCTTCCGAGCAGCATCCAGGAGCGTGTGGC
 CCAGGGCCAGACTGGAACCTTCTGTTTTTGGCTGCCGCTGGCGGGACCAAGACTTCTACTGGGAGGCT
 GAGTGGCAGGAGCTGGAGAAGCGGGAAGTCTGACCTCATCCCTGCCTTCTCCCGGGAACAGGAGCAGA
 AAGTATATGTGCAGCACCAGGCTCCGGGAGTGGGGTCGCTTGTGTGGAACTGCTGGACCGCAGGGTGC
 ATACTTCTACCTGGCAGGCAACGCCAAGTCCATGCCAGCGGAGCTCTCGGAAGCCCTGATGTCCATCTTC
 CAGGAGGAGGTGAGTCTGCAGCCCGGACGACCGCGTATCTAGCCAGGCTCCAGCAGACACGGCGCT
 TCCAGACAGAGACGTGGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226649 representing NM_001144028
 Red=Cloning site Green=Tags(s)

MPSPQLLVLFQSQTGTAQDVSERLGREARRRRLGCRVQALDSYPVNLINELVIFVCATTGQGDPPDNM
 KNFWRFI FRKNLPSTALCQMDFAVLGLGDSSYAKFNFAKKLHRRLLQLGGSALLPVCLGDDQHELGPDA
 AVDPWLRDLWDRVLGLYPPPPGLTEIPPGVPLPSKFTLLFLQEAPSTGSEGQVRVAHPGSQEPPSESKPFL
 APMISNQRVTGPSHFQDVRLIEFDILGSGISFAAGDVVLIQPSNSAAHVQRFQVLGLDPDQLFMLQPRE
 PDVSSPTRLPQPCSMRHLVSHYLDIASVPRRSFFELLACLSHELEREKLEFSSAQGEELFEYCNRP
 RTILEVLCDPHTAAAIIPDYLLDLIPVIRPRAFSIASLLILVAVVQFQTRLKEPRRGLCSSWLASLDP
 GQGPVRVPLWVRPGLAFETPDTPVIMVPGTGVAPFRAAIQERVAQGTGNFLFFGCRWRDQDFYWEA
 EWQLEKRDCLTIPAFSREQEQKVYVQHRLRELGSVLWELLDQRQAYFYLAGNAKSMPADVSEALMSIF
 QEEGGLCSPDAAAYLARLQQTRRFQTETWA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001144028

ORF Size: 1770 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.

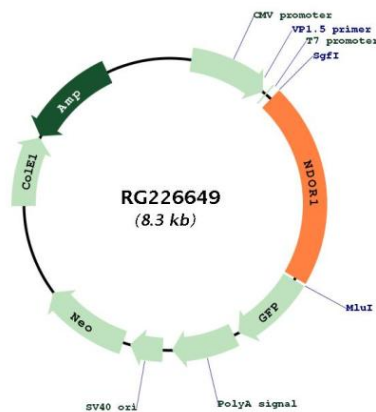
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001144028.3](#)

RefSeq Size: 4829 bp
RefSeq ORF: 1773 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 RG226649