

Product datasheet for **RG226503**

NDOR1 (NM_001144027) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDOR1 (NM_001144027) 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:

>RG226503 representing NM_001144027
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCAGCCCGCAGCTTCTGGTCTCTCGGCAGCCAGACAGGCACGGCTCAGGATGTGTGGAGAGAC
 TGGGTCGCGAGGCCCGGCCCGCGCTTGGCTGCCGGTGCAGGCCCTGGACTCCTACCCGGTGGTGAA
 TCTGATTAACGAGCCCTGGTGATATTTGTTTGTGCAACTACAGGCCAAGGAGACCCCTGACAACATG
 AAGAACTTCTGGAGTTTATATTCGGAAGAACCTGCCCTCCACTGCCCTCTGTGAGATGGACTTTGCCG
 TCCTGGGCTCGGGACTCCTCATACGCCAAGTTCAACTTCGTGGCCAAGAAGCTGCACCAGCGCTACT
 GCAGCTTGGGGCAGCGCCCTCTGCCGTGTGCCTGGCGATGACCAGCATGAGCTGGGCTGCCCTCC
 AAGTTCACCTGTCTTCTCAAGAGGCCACCCAGCACGGCTCTGAGGGCAGCGGGTAGCTCACCCCG
 GCTCTCAGGAGCCCGTCAGAGTGAAGCCCTTCTAGCACCCATGATCTCAACCAGAGAGTCACCCGG
 CCCCTCCACTTCCAGGACGTTCCGGCTGATTGAGTTTGACATCTGGGCTCTGGCATCAGCTTTGCTGCT
 GGTGATGTGGTGTGATTACGCCCTCAACTCGGCTGCCATGTCCAGCGGTTCTGCCAGGTGCTGGGCC
 TGGACCTGACCAGCTTTCATGCTGCAGCCCGGGAGCCAGATGTCTCCTCCCCACGAGGCTGCCCA
 GCCCTGTCCATGCGGCACCTCGTGTCCCACTACCTGGACATCGCCAGCGTGCCTCGCCGCTCCTTCTC
 GAACTCTGGCCTGTCTATCCCTCCATGAGCTGGAGCGGGAGAAGCTGCTGGAGTTCAAGTTCTGCCAAG
 GCCAGGAGGAGCTCTTTGAATACTGCAACCGGCCCGCAGGACCATCCTGGAGGTGCTCTGTGACTTCCC
 GCACACAGCTGCCCCATCCCTCCGACTACCTGTTGGACCTCATCCCGTTATCCGGCCGAGGGCCTTC
 TCCATCGCCTCTCGCTGCTGACTACCCCTCACGGCTGCAGATCCTCGTGGCTGTAGTGCAGTTCCAGA
 CTCGCCCAAGGAGCCCGCCGGGCTCTGCTCCTCTGGCTGGCATCCCTGGACCTTGGGCAAGGACC
 TGTCCGGGTGCCCTCTGGGTGCCGCTGGGAGTCTGGCCTTCCAGAGACACCAGACACACCTGTGATC
 ATGGTGGGCTGGCACTGGGGTAGCCCTTCCGAGCAGCCATCCAGGAGCGTGTGGCCAGGGCCAGA
 CTGGAACTTCTGTTTTTGGCTGCCGCTGGCGGACCAAGACTTCTACTGGGAGGCTGAGTGGCAGGA
 GCTGGAGAAGCGGACTGTCTGACCCTCATCCCTGCCTTCTCCCGGAACAGGAGCAGAAAGTATATGTG
 CAGCACCGGCTCCGGGAGCTGGGTGCTTGTGTGGAACTGCTGGACCGCCAGGCAACGCCAAGTCCAT
 GCCAGCGGACGTCTCGGAAGCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226503 representing NM_001144027
 Red=Cloning site Green=Tags(s)

MPSPQLLVLFSGQTGTAQDVSERLGREARRRRLGCRVQALDSYPVVNLINEPLVIFVCATTGQGDPPDNM
 KNFWRFIFRKNLPSTALCQMDFAVLGLGDSSYAKFNFVAKKLHRRLLQLGGSALLPVCLGDDQHELGLPS
 KFTLLFLQEAPSTGSEGQRVAHPGSQEPPESEKPFAPMISNQRVTGPSHFQDVRLIEFDILGSGISFAA
 GDVVLIQPSNSAAHVQRFQVLGLDPDQLFMLQPREPDVSSPTRLPQPCSMRHLVSHYLDIASVPRRSFF
 ELLACLSLHELEREKLLFSSAQGEELFEYCNRPRTILEVLCDPHTAAAIPPDYLLDLIPVIRPRAF
 SIASSLLTHPSRLQILVAVVQFQTRLKEPRRLCSSLASLDPGQGPVRVPLWVRPGSLAFPETPDPVI
 MVGPGTGVAPFRAAIQERVAQQTGNLFFGCRWRDQDFYWEAEWQELEKRDCLTIPAFSREQEQKVVY
 QHRLRELGSLVWELLDRQATPSPCQRTSRKP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001144027

ORF Size: 1563 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_001144027.3](#)

RefSeq Size: 4726 bp

RefSeq ORF: 1566 bp

Locus ID: 27158

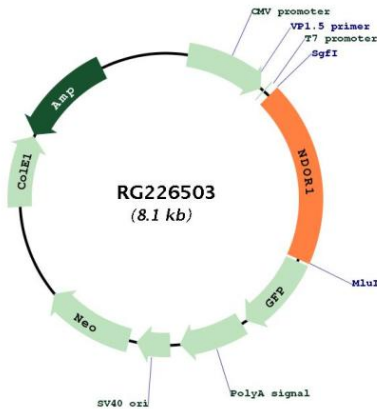
UniProt ID: [Q9UHB4](#)

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 RG226503