

Product datasheet for **RG204845**

NDOR1 (NM_014434) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDOR1 (NM_014434) 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:

>RG204845 representing NM_014434
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAGCCCGCAGCTTCTGGTCTCTCGGCAGCCAGACAGGCACGGCTCAGGATGTGTGGAGAGAC
 TGGGTCGCGAGGCCCGCGCCGGCGGCTTGGCTGCCGGGTGCAGGCCCTGGACTCTACCCGGTGGTGAA
 TCTGATTAACGAGCCCTGGTGATATTTGTTTGTGCAACTACAGGCCAAGGAGACCCCTGACAACATG
 AAGAACTCTGGAGGTTTATATTCGGAAGAACCTGCCCTCCACTGCCCTCTGTGAGATGGACTTTGCCG
 TCCTGGGCTCGGGGACTCCTACACGCCAAGTTCAACTTCGTGGCCAAGAAGCTGCACCGACGGCTACT
 GCAGCTTGGGGCAGCGCCCTCTGCCGTGTGCCTGGCGATGACCAGCATGAGCTGGGGCCCGACGCT
 GCTGTGGACCCCTGGCTGCGAGACTTGTGGACAGGGTCTGGGGCTGTACCCGCCGCTCCGGGCTCA
 CTGAGATCCCTCCCGAGTCCCCTGCCCTCCAAGTTCACCTGTGTTCTCCAAGAGGCCACCCAGCAC
 GGGCTCTGAGGGCAGCGGGTAGCTCACCCGGCTCTCAGGAGCCCCGTGAGAGTGAAGCCCTTCTTA
 GCACCATGATCTCCAACAGAGAGTACCCGGCCCTCCCACTTCCAGGACGTTCCGGCTGATTGAGTTTG
 ACATCTTGGGCTCTGGCATCAGCTTTGCTGCTGGTGTGATGTGGTGTGATTAGCCCTCCAACCTCGGCTGC
 CCATGTCCAGCGTTCTGCCAGGTGCTGGGCTGGACCCTGACCAGCTTTCATGCTGCACCGCGGGAG
 CCAGATGTCTCTCCCCACGAGGCTGCCCCAGCCCTGCTCCATGCGGCACCTCGTGTCCCACTACCTGG
 ACATCGCCAGCGTGCCTCGCCGCTCCTTCTTGAACCTCTGGCCTGTCTATCCCTCCATGAGCTGGAGCG
 GGAGAAGTGTGGAGTTCACTTCTGCCAAGGCCAGGAGGAGCTCTTGAATACTGCAACCGCCCCCGC
 AGGACCATCTGGAGTGTCTGTGACTTCCCGCACACAGTCCGCCATCCCTCCGACTACCTGTTGG
 ACCTCATCCCCGTTATCCGGCCGAGGGCCTTCTCCATCGCCTCCTCGCTGCTGACTACCCCTCAGGCT
 GCAGATCCTCGTGGCTGTAGTGCAGTTCAGACTCGCCTCAAGGAGCCCCGCCGGGCTCTGCTCCTCC
 TGCTGGCATCCCTGGACCCTGGCAAGGACCTGTCCGGTGCCCTCTGGGTGCGGCCTGGGAGTCTGG
 CCTTCCCAGAGACACCAGACACCTGTGATCATGGTGGGGCTGGCACTGGGGTAGCCCCCTTCCGAGC
 AGCCATCCAGGAGCGTGTGGCCAGGGCCAGACTGGAACTTCTTGTTTTTGGTGGCGTGGCGGGAC
 CAAGACTTCTACTGGAGGCTGAGTGGCAGGAGCTGGAGAAGCGGGACTGTGACCCTCATCCCTGCT
 TCTCCCGGAACAGGAGCAGAAAATATGTGCAGCACCGGCTCCGGGAGCTGGGGTGTGTTGTGGGA
 ACTGCTGGACCGCAGGGTGCATACTTCTACCTGGCAGGCAACGCCAAGTCCATGCCAGCGGACGTCTCG
 GAAGCCCTGATGTCCATCTTCCAGGAGGAGGGTGGACTCTGCAGCCCGGACGCAGCCGCTATCTAGCCA
 GGCTCCAGCAGACACGGCGCTTCCAGACAGAGACGTGGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204845 representing NM_014434
 Red=Cloning site Green=Tags(s)

MPSPQLLVLFQSQTGTAQDVSERLGREARRRRLGCRVQALDSYPVVNLINEPLVIFVCATTGQGDPPDNM
 KNFWRIFRKNLPSTALCQMDFAVLGLGDSSYAKFNFVAKKLHRRLLQLGGSALLPVCLGDDQHELGPDA
 AVDPWLRDLWDRVLGLYPPPPGLTEIPPVPLPSKFTLLFLQEAPSTGSEQRVAHPGSQEPPESEKPF
 APMISNQRVTGPHSHFDVRLIEFDILGSGISFAAGDVVLIQPSNSAAHVQRFCQVLGLDPDQLFMLQPRE
 PDVSSPTRLPPQCSMRHLVSHYLDIASVPRRSFELLACLSHELEREKLLFSSAQGEELFEYCNRP
 RTILEVLCDPHTAAAIPPDYLLDLIPVIRPRAFSAISSLTHPSRLQILVAVVQFQTRLKEPRRGLCSS
 WLASLDPGQGPVRVPLWVRPGLAFPETPDPVIMVPGTGVAPFRAAIQERVAQQTGNLFFGCRWRD
 QDFYWEAEWQELEKRDCLTLPFAFSREQEKIYVQHRLRELGSVWELLDRQGAYFYLAGNAKSMADV
 EALMSIFQEGLCSPDAAAYLARLQTRRFQETWA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_014434

ORF Size: 1791 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_014434.1](#), [NP_055249.1](#)

RefSeq Size: 2487 bp

RefSeq ORF: 1794 bp

Locus ID: 27158

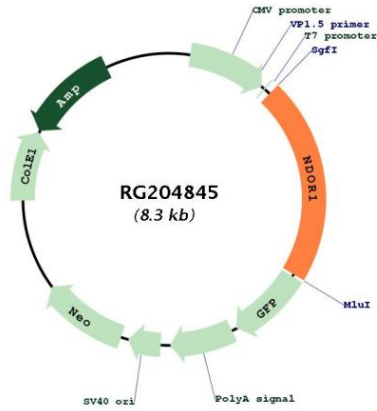
UniProt ID: [Q9UHB4](#)

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 RG204845