

Product datasheet for **RG202992**

NDNF (NM_024574) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDNF (NM_024574) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NDNF
Synonyms:	C4orf31; HH25; NORD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202992 representing NM_024574
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGTGTCTCCACTGGTGCCTGCTGTGGCTCCTGTTTCCACTCAGCTCAAGGACCCAGAAGTTACCCA
 CCCGGGATGAGGAACTTTTTCAGATGCAGATCCGGGACAAGGCATTTTTTCATGATTCGTCAGTAATTCC
 AGATGGAGCTGAAATTAGCAGTTATCTCTTTAGAGATACACCTAAAAGGTATTTCTTTGTGGTTGAAGAA
 GACAATACTCCATTATCAGTCACAGTGACGCCCTGTGATGCGCCTTTGGAGTGGAAGCTGAGCCTCCAGG
 AGCTGCCAGAGGACAGGAGCGGGGAAGGCTCAGGTGATCTGGAACCTCTTGAGCAGCAGAAGCAGCAGAT
 CATTAATGAGGAAGGCACTGAGTTATTCTCTACAAAGGCAATGATGTTGAGTATTTTATATCGTCTAGT
 TCCCCATCCGTTTATATCAGTTGGATCTTCTTTCAACAGAGAAAGACACACATTTCAAAGTATATGCCA
 CCACAATCCAGAATCTGATCAGCCATACCCTGAGTTACCCTATGACCAAGAGTAGATGTGACCTCACT
 GGGGCGCACCGGTCACTTTGGCCTGGAACCAAGCCCACTGCCTCTTTGCTGAAACAACCCATTTCAG
 TACTGTGTGGTCACTCAACAAAGAGCACAAATTTCAAAAGTCTCTGTGCAGTGGAAGCAAACTGAGTGCAG
 ATGATGCTTTTATGATGGCACCGAAACCTGGTCTGGACTTCAGCCCTTTGACTTTGCCCACTTTGGATT
 TCCTTCTGATAATTACAGGTAAAGAACGCAGTTTCCAGGCAAGCCTTCTCCAAACTGGGGCGTCATGTC
 TACTCCAGGCCCAAGGTTGATATTCAGAAAATCTGCATAGGAAACAAGAATCTTCACCGTCTCTGATC
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 TGTAGGTACCTTTGCCAGGACCAAGGAAGAAGCCAAACAGAAGACAGTCGAGCTCAAAGATGGGAAGATA
 ACAGATGTATTTGTTAAAAGGAAGGGAGCAAAGTTTCTACGGTTTGCTCCAGTCTCTTCTACCAAAAAG
 TCACCTTCTTTATTCACCTTTGTCTGGATGCTGTCCAAATCCAAGTGAGAAGAGATGGGAACTTCTTCT
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 CTGAAAGGAAACAAGAAAGGAGCATCTATGTTGAAAATCTAGCTACCACAAGGCCTACTAAGCAGTCAT
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 GGCTTGGCTAGGCACTCAGGAAAGGAACAAGTTTTGCATCTACAAAAAGAAGTGATGATAACTACAAT
 GAAGACCAGAAGAAAAGAGAGCAAAACCAATGTCTAGGACCAGATATAAGGAAGAAGTCAGAAAAGGTCC
 TCTGTAATATTTCCACAGTCAAACCTGCAGAAAGCAGTGACCACAGAAACAATTAAGGTCTTCAGCC
 TGGCAATCTTACCTGCTGGATGTTTATGTCATAGGACATGGGGGCACTCTGTAAGTATCAGAGTAAG
 GTTGTGAAAACCTAGAAAGTTCTGT

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

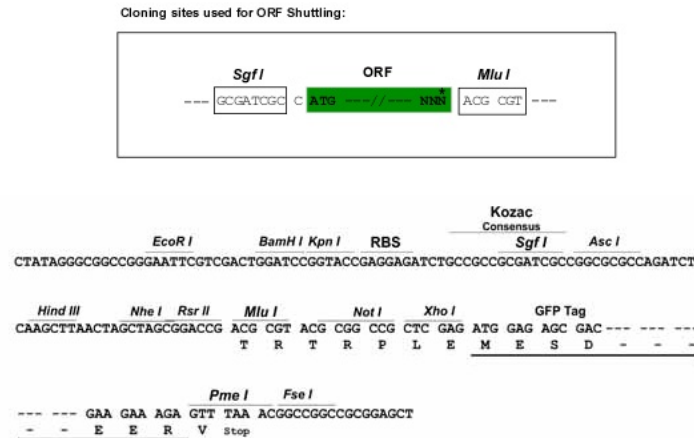
>RG202992 representing NM_024574
 Red=Cloning site Green=Tags(s)

MVLLHWCLLWLLFPLSSRTQKLPTRDEELFQMQRDKAFFHDSVIPDGAIEISSYLFDRDTPKRYFFVVEE
 DNTPLSVTVTPCDAPLEWKLQELPEDRSGEGSGDLEPLEQQKQKIINEEGTELFQSYKNDVEYFISS
 SPSGLYQLDLLSTEKDTDFKVFYATTTPESDQPYPELPYDPRVDVSLGRTTVTLAWKPSPTASLLKQPIQ
 YCVVINKEHNFKSLCAVEAKLSADDAFMMAKPGLDSPFDFAHFGFSDNSGKERSFQAKPSPLGRHV
 YSRPKVDIQKICIGNKNIFTVSDLKPDQYFFDVFNINSNMSTAYVGTARTKEEAKQKTVELKDGI
 TDVFKRKGAFLRFAPVSSHQKVTFIHSCLDAVQIQVRRDGKLLLQNVGEIQFQLRGKPKAKYLR
 LKGNKKGASMLKILATTRPTKQSFPSLPEDTRIKAFDKLRTCSSATVAWLGTQERNKFCIYKKEVDNIN
 EDQKKREQNQCLGPDIRKKSEKVLCKYFHSQNLQKAVTTETIKGLQPGKSYLLDVYVIGHGGHVSQYQSK
 VVKTRKFC

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_024574

ORF Size: 1704 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_024574.3](#), [NP_078850.3](#)

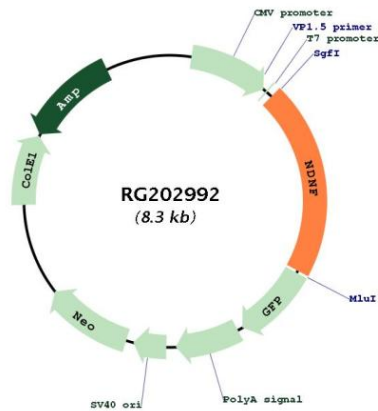
RefSeq Size: 2911 bp

RefSeq ORF: 1707 bp

Locus ID: 79625

UniProt ID:	Q8TB73
Cytogenetics:	4q27
Domains:	FN3
Gene Summary:	Promotes matrix assembly and cell adhesiveness (By similarity). Promotes neuron migration, growth and survival as well as neurite outgrowth (PubMed:20969804). Promotes endothelial cell survival, vessel formation and plays an important role in the process of revascularization through NOS3-dependent mechanisms (PubMed:24706764).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG202992