

Product datasheet for **RC202992**

NDNF (NM_024574) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDNF (NM_024574) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NDNF
Synonyms:	C4orf31; HH25; NORD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC202992 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGTGTCTCCACTGGTGCCTGCTGTGGCTCCTGTTTCCACTCAGCTCAAGGACCCAGAAGTTACCCA
 CCCGGGATGAGGAACTTTTTCAGATGCAGATCCGGGACAAGGCATTTTTTCATGATTCGTCAGTAATTCC
 AGATGGAGCTGAAATTAGCAGTTATCTCTTTAGAGATACACCTAAAAGGTATTTCTTTGTGGTTGAAGAA
 GACAATACTCCATTATCAGTCACAGTGACGCCCTGTGATGCGCCTTTGGAGTGGAAGCTGAGCCTCCAGG
 AGCTGCCAGAGGACAGGAGCGGGGAAGGCTCAGGTGATCTGGAACCTCTTGAGCAGCAGAAGCAGCAGAT
 CATTAATGAGGAAGGCACTGAGTTATTCTCTACAAAGGCAATGATGTTGAGTATTTTATATCGTCTAGT
 TCCCCATCCGTTTATATCAGTTGGATCTTCTTTCAACAGAGAAAGACACACATTTCAAAGTATATGCCA
 CCACAATCCAGAATCTGATCAGCCATACCCTGAGTTACCCTATGACCAAGAGTAGATGTGACCTCACT
 GGGGCGCACCGGTCACTTTGGCTGGAACCAAGCCCACTGCCTCTTTGCTGAAACAACCCATTTCAG
 TACTGTGTGGTCACTCAACAAAGAGCACAAATTTCAAAGTCTCTGTGCAGTGGAAGCAAACTGAGTGCAG
 ATGATGCTTTTATGATGGCACCAGAACCTGGTCTGGACTTCAGCCCTTTGACTTTGCCCACTTTGGATT
 TCCTTCTGATAATTACAGGTAAAGAACGCAGTTTCCAGGCAAGCCTTCTCCAAACTGGGGCGTCATGTC
 TACTCCAGGCCCAAGGTTGATATTCAGAAAATCTGCATAGGAAACAAGAATCTTCACCGTCTCTGATC
 TGAAACCCGACACGCAGTACTACTTTGACGTATTTGTGGTCAACATCAACAGCAACATGAGCACCCTTA
 TGTAGGTACCTTTGCCAGGACCAAGGAAGAAGCAAAACAGAAGACAGTCGAGCTCAAAGATGGGAAGATA
 ACAGATGTATTTGTTAAAAGGAAGGGAGCAAAGTTTCTACGGTTTGCTCCAGTCTCTTCTACCAAAAAG
 TCACCTTCTTTTATCACTCTTGTCTGGATGCTGCCAAATCCAAGTGAGAAGAGATGGGAACTTCTTCT
 GTCTCAGAATGTGGAAGGCATTACAGAGTTTCAGCTTAGAGGAAAACCTAAAGCTAAATACCTCGTTTCTGA
 CTGAAAGGAAACAAGAAAGGAGCATCTATGTTGAAAATCTAGCTACCACAAGGCCTACTAAGCAGTCAT
 TTCCCTCTCTTCTGAAGACACAAGAATCAAAGCCTTTGACAAGCTCCGTACCTGTTCTCGGCCACCGT
 GGCTTGGCTAGGCACTCAGGAAAGGAACAAGTTTTGCATCTACAAAAAGAAGTGATGATAACTACAAT
 GAAGACCAGAAGAAAAGAGAGCAAAACCAATGTCTAGGACCAGATATAAGGAAGAAGTCAGAAAAGGTCC
 TCTGTAATATTTCCACAGTCAAACCTGCAGAAAGCAGTGACCACAGAAACAATTAAGGTCTTCAGCC
 TGGCAATCTTACCTGCTGGATGTTTATGTCATAGGACATGGGGGCACTCTGTAAGTATCAGAGTAAG
 GTTGTGAAAACCTAGAAAGTTCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202992 protein sequence
 Red=Cloning site Green=Tags(s)

MVLLHWCLLWLLFPLSSRTQKLPTRDEELFQMQIRDKAFFHDSVIPDGAIEISSYLFRTDTPKRYFFVVEE
 DNTPLSVTVTPCDAPLEWKL SLQELPEDRSGEGSGDLEPLEQQKQIINEEGTELSYKGN DVEYFISS
 SPSGLYQLDLLSTEK DTHFKVYATTTPE SDQPYPELPYDPRVDVTS LGRTTVTLAWKPSPTASLLKQPIQ
 YCVVINKEHNFKSLCAVEAKLSADDAFM MAPKPLDFSPFDFAHF GFPSDMSGKERSFQAKPSPKLGRHV
 YSRPKVDIQKICIGNKNIFTVSDLKPD TQYYFDVFVNINSNMSTAYVGT FARTKEEAKQKTVELKDGI
 TDVFVKRKGAKFLRFAPVSSHQKVTF F IHSCLDAVQIQVRRDGKLLL SQNVEGIQQFQLRGKPKAKYLVR
 LKGNKKGASMLKILATTRPTKQSFPSLPEDTRIKAFDKLRTCSSATVAWLGTQERNKFCIYKKEVDNYN
 EDQKKREQNQCLGPDIRKKSEKVLCKYFHSQNLQKAVTTETIKGLQPGKSYLLD VYVIGHGGHSVKYQSK
 VVKTRKFC

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6205_g02.zip

Restriction Sites:

Sgfl-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](#)

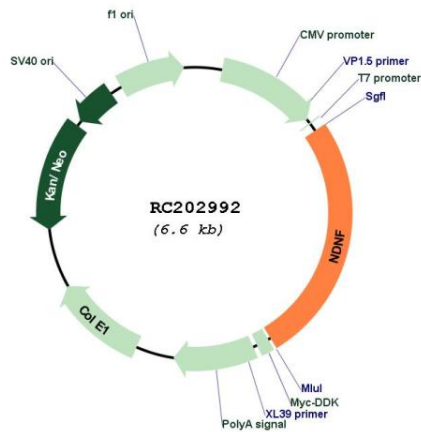
RefSeq Size: 2911 bp

RefSeq ORF: 1707 bp

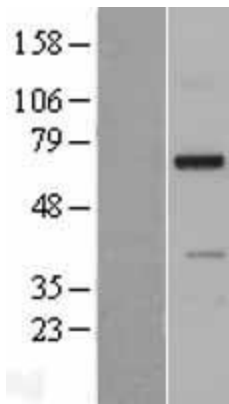
Locus ID: 79625

UniProt ID:	<u>Q8TB73</u>
Cytogenetics:	4q27
Domains:	FN3
MW:	64.7 kDa
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 RC202992



Western blot validation of overexpression lysate (Cat# [LY403004]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202992 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).