

Product datasheet for **RC205252**

FNDC8 (NM_017559) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | FNDC8 (NM_017559) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | FNDC8 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC205252 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATCAGAGGCACTCCATCAAGTGGGAGATGGGGAGGAGGCTGTACTGAAGAAAGAAAATTCAACA
TGATGAATGCCCTTGACCAACTGCCAAAACCCCTTCCAAACCCCAAGTCTATGAACCGGACCGTCACTAC
CAAAGGACTCCCCTAGCCTCAAAGGGCAATTTGGTCACTTCTTGGAGGATGATACCATCAACCTACTG
AAGCCGCTGCCAGTAGAGGATTCAGACTGCAGCTCTGATGAGACCAGCATCTCTGCCTTCTCATCCACCT
TGCTGAACCCCATCAAATTAGCTGTGACCCAGCCCAACAGCAGCTTCTTGCAGGGATGCTGGAGGGGA
GCTGAACAAACTCAGTTCTCCCAATGGCCAAGAATGCAGAAAATGAGGACCTGGCGCTCGGCCCTGC
CCATGCCCATCGAAGTCCAGATGGCCACAAGGGCCTGCTGGACCTTGACAACCCTGAGCTGGAGACAG
AAACCTCCTCAACGCACTCAGAATCTTCTGTGGTTGTGGACCTGCCGGACACCCCTTCTATCTTTGAGCA
CACAGTCAACAATTCCACAGCTGTGATTTCTGGACCTACGCCTTGGCAAGCAGCCGGTCAATTTCTAC
CAGCTCCTGTTACAGGAGGTGGCCAAGACACAGGAGAATGAGTTGCCCGAGGCAAAGAATCGTCCATGGA
TCTTCAACAAGATTTTGGGCACTACTGTCAAGCTGATGGAGCTAAAGCCTAACACGTGTTACTGCCTCAG
TGTCGGTGCAGCCAACACAGCTGGGGTGGGAAGTGGTCAAGCCCTACAAATTTGCAACCTGGCCACT
GACTTCAGCAGCTTCTGAGAACTACCCATCCAGATCACCGTGGCGCAAGGAACCCCGCAAAGA
TCGTGTCCATCGGCGGAGGAGATGCGGAGGCTGGAGGATCTGGAATACCTATTTCCCTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC205252 protein sequence
Red=Cloning site Green=Tags(s)

MASEALHQVGDGEEAVLKKNFNMMNALDQLPKPFPNPKSMNRTVTTKGLPLASKGNLVNLFEDDTINLL
 KPLPVEDSDCSSDETSISAFSSTLLNPIKLAVTQPNSFFAGMLEGELNLSFSMAKNAENEDLALGPC
 PCPSKSMATRGLLDLDNPELETETSSSTHSESSVVVDLPDTPFIFEHTVNNSTAVISWTYALGKQPVSFY
 QLLLQEVAKTQENELPEAKNRPWIFNKILGTTVKLMELKPNTCYCLSVRAANTAGVGKWKPYKFATLAT
 DFSSFPENYPIQITVRRKEPRQKIVSIGPEEMRRLLEDLEYLFPC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6314_b12.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_017559

ORF Size: 972 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_017559.4](#)

RefSeq Size: 1369 bp

RefSeq ORF: 975 bp

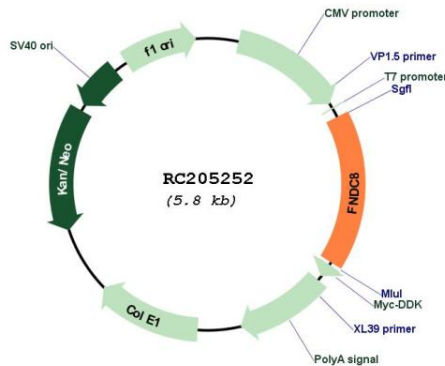
Locus ID: 54752

UniProt ID: [Q8TC99](#)

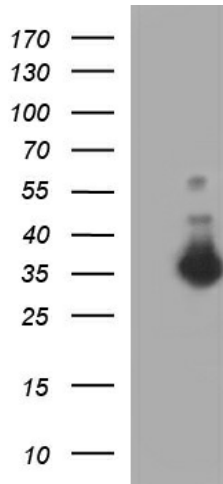
Cytogenetics: 17q12

MW: 35.9 kDa

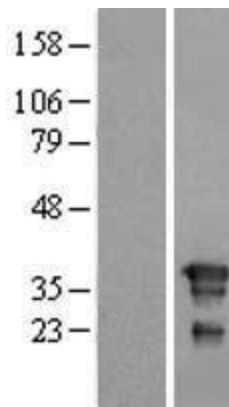
Product images:



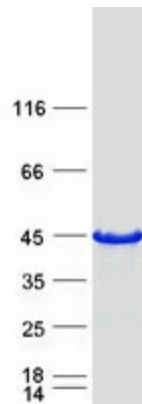
Circular map for RC205252



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FNDC8 (Cat# RC205252, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FNDC8(Cat# [TA507219]). Positive lysates [LY413703] (100ug) and [LC413703] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY413703]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205252 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FNDC8 protein (Cat# [TP305252]). The protein was produced from HEK293T cells transfected with FNDC8 cDNA clone (Cat# RC205252) using MegaTran 2.0 (Cat# [TT210002]).