

Product datasheet for RC228249

NDFIP2 (NM_001161407) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDFIP2 (NM_001161407) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NDFIP2
Synonyms:	N4WBP5A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228249 representing NM_001161407 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGCAGCCGGCGGAGCCAGCGAGTCTGCGCGAGCGGTCCGAGCATGCTCAATAGCGCGCGCGGCCCGGAGCTTCTCCGCGGAACCGCGACCAACGCGGAGGTCTCGGCGGCCGCTGCGGGAGCCACAGGAAGTGAAGAGCTTCCGCCGGGAGACCGCGGCTGCAGGAACGGAGCGGAAGGGCCCTGCGGCGACGACGTCGTCGACGGGGTGGCCGTGGGAGCTGAGCACGGAGAAGACTCCCTCTCTCGGAAGCCGGATCCCGAGCCGGGCAAGGATGGATCACCACCGCGGGACTGGGCGCTACCAGGTGCTTCTTAATGAAGAGGATAACTCAGAATCATCGGCTATAGAGCAGCCACCTACTTCAAACCCAGCACCGCAGATTGTGCAGGCTGCGTCTTCAGCACCAACACTTGAAGTACTGCTTCCCCTCCACCATATAGTAGTATTACTGTGGAAGTACCTACAACCTTCAGATCAGAAAGTTACGGTGAGTTTTATCCCCTGCCACCTCCCTATAGCGTTGCTACCTCTTCTCCTACATACGATGAAGTGTGAGAAGGCTAAAGCTGCTGCAATGGCAGCTGCAGCAGCAGAAACATCTCAAAGAATTCAGGAGGAAGAGTGTCCACCAAGAGATGACTTCAGTGATGCAGACCAGCTCAGAGTGGGAATGATGGCATTTCATGCTGGCATTTCCTGCTGGAAGGATGGTGCTATCTGCGGATTTGGCCTTTCCTTGATCAAATGGATCCTTATTGTGAGTTCCTGATTATTTACTGGATATTTCAATGGACAGTATTGGCTTTGGTGGATATTTCTGTACTTGGCCTGCTCCTTTCTCAGAGGATTTGTTAATTATCTAAAAGTCAGAAACATGCTGAAAAGTATGGCAGCTGCTCATAGAACAAGGTATTTCTTCTTATTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC228249 representing NM_001161407
Red=Cloning site Green=Tags(s)

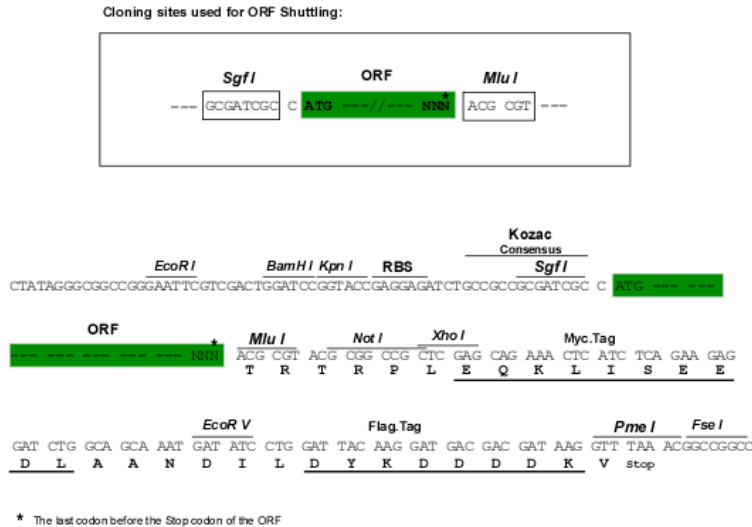
MARRRSQRVCASGPSMLNSARGAPELLRGATNAEVSAAAAGATGSEELPPGDRGCRNGGGRPAATTSS
 TGVAVGAEHGEDSLSRKPDPEPGRMDHHQPGTGRYQVLLNEEDNSESSAIEQPPTSNPAPQIVQAASSAP
 ALETSSPPPYSSITVEVPTTSDTEVYGEFYVPPPYSVATSLPTYDEAEKAKAAAMAAAAAETSQRIQE
 EECPPRDDFSDADQLRVGNDGIFMLAFFTGRYGAICGFGLSLIKWILIVRFSDYFTGYFNGQYWLWWIFL
 VLGLLLFFRGFVNYLKVRNMSSEMAAAHRTRYFFLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8051_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001161407

ORF Size: 948 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_001161407.1](#), [NP_001154879.1](#)

RefSeq ORF: 951 bp

Locus ID: 54602

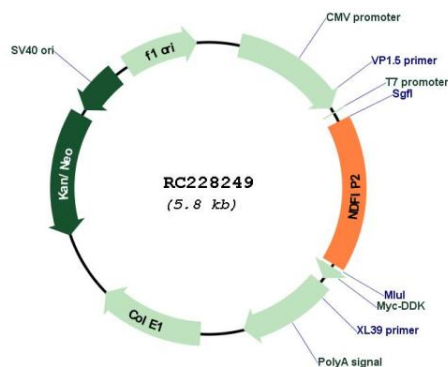
Cytogenetics: 13q31.1

Protein Families: Transmembrane

MW: 33.9 kDa

Gene Summary: Activates HECT domain-containing E3 ubiquitin-protein ligases, including ITCH, NEDD4, NEDD4L, SMURF2, WWP1 and WWP2, and consequently modulates the stability of their targets. As a result, may control many cellular processes. Recruits ITCH, NEDD4 and SMURF2 to endosomal membranes. Negatively regulates KCNH2 potassium channel activity by decreasing its cell-surface expression and interfering with channel maturation through recruitment of NEDD4L to the Golgi apparatus and multivesicular body where it mediates KCNH2 degradation (PubMed:26363003). May modulate EGFR signaling. Together with NDFIP1, limits the cytokine signaling and expansion of effector Th2 T-cells by promoting degradation of JAK1, probably by ITCH- and NEDD4L-mediated ubiquitination (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC228249