

Product datasheet for **RC236372**

NCE2 (UBE2F) (NM_001278305) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | NCE2 (UBE2F) (NM_001278305) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | NCE2 |
| Synonyms: | NCE2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC236372 representing NM_001278305 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTAACGCTAGCAAGTAACTGAAGCGTGACGATGGTCTCAAAGGGTCCCGGACGGCAGCCACAGCGT
CCGACTCGACTCGGAGGGTTTCTGTGAGAGACAAATTGCTTGTTAAAGAGGTTGCAGAACTTGAAGCTAA
TTTACCTGTACATGTAAGTGCATTTTCCTGATCCAAACAAGCTTCATTGTTTTAGCTAACAGTAACC
CCAGATGAGGGTTACTACCAGGGTGAAAATTTTCAGTTTGAAGTGAAGTCCCGATGCGTACAACATGG
TGCTCCCAAAGTAAAATGCCTGACCAAGATCTGGCACCCAACATCACAGAGACAGGGGAAATATGTCT
GAGTTTATTGAGAGAACATTCAATTGATGGCACTGGCTGGGCTCCACAAGAACATTAAAGGATGTCGTT
TGGGGATTAAGTCTTTGTTTACTGATCTTTGATTTGATGATCCACTGAATATTGAAGCTGCAGAAC
ATCATTTCGGGACAAGGAGGACTTCCGGAATAAAGTGGATGACTACATCAAACGTTATGCCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

| | |
|-------------------|---|
| Protein Sequence: | >RC236372 representing NM_001278305 Red=Cloning site Green=Tags(s) |
|-------------------|---|

MLTLASKLKRDDGLKGSRTAATASDSTRVSVRDKLLVKEVALEANLPCTCKVHFDPNKLHCFQLTVT
PDEGYQGGKQFETEVDPAYNMVPPKVKCLTKIWHPNITETGEICLSLLREHSIDGTGWAPTRTLKDVV
WGLNSLFTDLLNFDDPLNIEAAEHHLRDKEDFRNKVDDYIKRYAR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

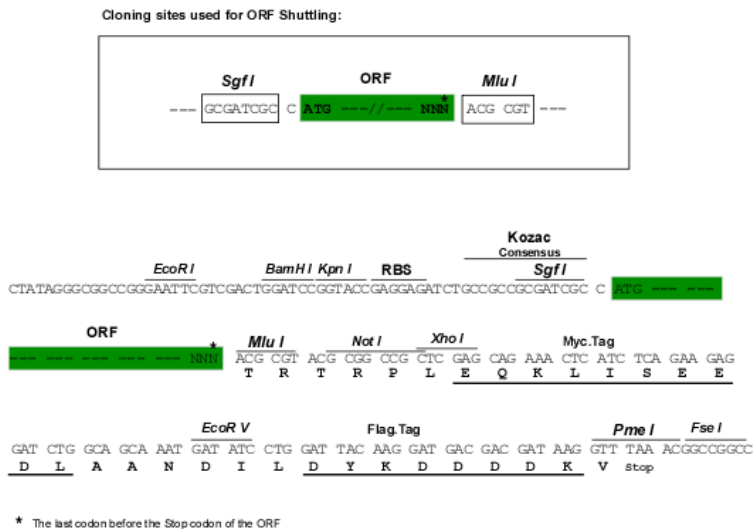
| | |
|----------------|---|
| Chromatograms: | https://cdn.origene.com/chromatograms/mg2875_a06.zip |
|----------------|---|



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001278305

ORF Size: 558 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_001278305.1](#), [NP_001265234.1](#)

RefSeq Size: 2135 bp

RefSeq ORF: 558 bp

Locus ID: 140739

UniProt ID: [Q969M7](#)

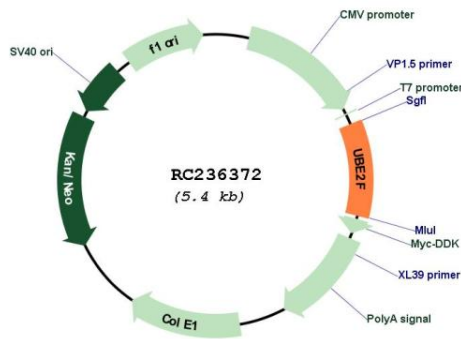
Cytogenetics: 2q37.3

Protein Pathways: Ubiquitin mediated proteolysis

MW: 21.1 kDa

Gene Summary: Accepts the ubiquitin-like protein NEDD8 from the UBA3-NAE1 E1 complex and catalyzes its covalent attachment to other proteins. The specific interaction with the E3 ubiquitin ligase RBX2, but not RBX1, suggests that the RBX2-UBE2F complex neddylates specific target proteins, such as CUL5.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC236372