

Product datasheet for **RC236184**

NCE2 (UBE2F) (NM_001278306) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NCE2 (UBE2F) (NM_001278306) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: UBE2F
Synonyms: NCE2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236184 representing NM_001278306
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

**ATGGTGTGGGCGCCGGCCCGCCTCGCCTGTCTCGGGAGCCCAGAGGTTGCAGAAGTGAAGCTAATT
TACCTGTACATGTAAGTGCATTTTCCTGATCCAAACAAGCTTCATTGTTTTTCAGCTAACAGTAACCCC
AGATGAGGGTTACTACCAGGGTGGAAAATTTTCAGTTTGAAGTTCAGGATCCCGATGCGTACAACATGGTG
CCTCCCAAAGTGAATGCCTGACCAAGATCTGGCACCCCAACATCACAGAGACAGGGGAAATATGTCTGA
GTTTATTGAGAGAACATTCAATTGATGGCACTGGCTGGGCTCCCAAGAACATTAAGGATGTCGTTTTG
GGGATTAAGTCTTTGTTACTGATCTTTTGAATTTGATGATCCACTGAATATTGAAGTGCAGAACAT
CATTTGCGGGACAAGGAGGACTCCGGAATAAAGTGGATGACTACATCAAACGTTATGCCAGA**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >RC236184 representing NM_001278306
Red=Cloning site Green=Tags(s)

MVLGAGPASPVSQSPEVAELEANLPCTCKVHFPDPNKLHCFQLTVTPDEGYQGGKQFETEVDPDAYNMV
PPKVKCLTKIWHPNITETGEICLSLLREHSIDGTGWAPTRTLKDVVWGLNSLFTDLLNFDDPLNIEAAEH
HLRDKEDFRNKVDDYIKRYAR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

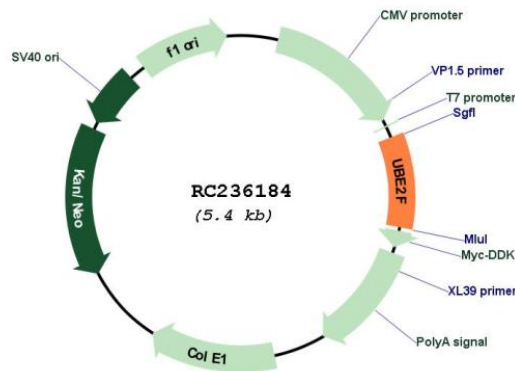


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001278306

ORF Size: 483 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:	<ol style="list-style-type: none">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:	<u>NM_001278306.1, NP_001265235.1</u>
RefSeq Size:	2072 bp
RefSeq ORF:	486 bp
Locus ID:	140739
UniProt ID:	<u>Q969M7</u>
Cytogenetics:	2q37.3
Protein Pathways:	Ubiquitin mediated proteolysis
MW:	18.6 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]