

## Product datasheet for **SC214657**

### **E2 230K (UBE2O) (NM\_022066) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	E2 230K (UBE2O) (NM_022066) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	UBE2O
Synonyms:	E2-230K
ACCN:	NM_022066
Insert Size:	1517 bp



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**Insert Sequence:** >SC214657 3'UTR clone of NM\_022066  
The sequence shown below is from the reference sequence of NM\_022066. The complete sequence of this clone may contain minor differences, such as SNPs.  
Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GGCATGCCGGAGTGCACAGAGGACAAGTAGCTGCCAGGCACAGAGGAAAGAGCATACCGTGGGAGAGG
CCAGCCGCCGCTGCTCACTCCCCCGGAATCACCCCTCTTCCCATGCCCTCTGTCCCACTGCAAAA
CCCACTGCCCTCTTCTCCCAAGGTGAGTTTATGCTGAAGTGCAAGAAGTGTGTGAGATGCTGCCGT
TTCTATTTTGAAGCGAGCTTTCAACAGGCGGGTCCCCTGTGGCAAAGAAAATCGGAACCTGTTGCCGA
TTTTCCATTTGTCACCCAGCAGAATGTCCGGCACTTGTCCCTTGTGCCCTTCTCAGGTCAGAGGC
GGGTGTTCCAGGGCTGCCGCGGGGCTCTCTGGGCGGTTCCTGCAGACCCGAGGAGACACATGTG
CCTTGATGAAGTGTGGTTGCGCAACAATCCCCTGGTCCCTTCAACCTGTTAGTTCAACTCAAG
CCTCCCTGTGTCCAGACCCTCCTGCTGCCACCACCAGGTCCTCCCTAGTCTCCAGCGTCAACA
CTATCCCTGGGAGTTGTAGCTGCTGCTCACTGACTCCCGCTATACATGGCCTGTGACCCAGTTATAG
CCCTCAGGCTGTTGAAGTGTCTCTAAGAGAGGTTGGGACCAGGCTAGGTTCCGGGTGACGCCAGG
AGAGGTGGTGGCCTTACACATGCACATGGAGTTGAGGACCAGGGAGCTGCAGGGAAAGCAACAGCTAT
AGGTGCCTTGCTCTTCTGTCGGAGGCTGCTGGGGCAAGAGCAGCTGCACAAGGCCAGGGCAAGTCTA
GGGCCCTCCCCATCACATGGTCACTGGGACAGGCGTGCAGCTCACTGAACTCCAAGCGAGCCAGC
CCTCTCTGGACTAGAAGGCCTACTGTGAGCCCTTCGTTACAACTGCAGGCTCAATCCGAAGGGGAC
GGCCGGCGGGGCTCTCCTAGTGCCAGAGACAGGCCAGAGGTTACAAGTTTTCTAAGCTTTTGATA
ATGTGAAGCTCCAGGCCGAGAGGATGCTGTTGAGCACATTGCAGCTATGTAATTTTGGTGTATGATG
TAATATTTAAGGTTGGAAAAAACTCAAAGCAAAGATATTAACCTTATTAGAAAAAAGACAAAAA
AAAAGCCAAAGCATGATGCGTCTTGTCAGCCTTAAGTGGGCTCCACACCTGTGCTGTGCTGTGACGCC
CAGCCAGCAGAGCTGCGGGAGGATGGAGCCGACCACACACCTGGCATTGGAACCGAGTCGGTATCT
TGTTTGAGAAACACCCGGAGTACTGGTGGGCTGTGCTTCCAGTGCATTGTACATGTGGAGATGTGA
ATGCTACTGCTTACGATATCTGTATAAAGTGTGTGATTAACCTTTTTTTTACTTGCATTTTTTTT
TTTTTTTTTTTTTGTGTTGGCTATTAGCAAGACAAGGTGACACCATTAACTCCCTCTGCCATTCA
ACGCGTAAGCGCCGCGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
```

**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_022066.4](#)

**Summary:** E2/E3 hybrid ubiquitin-protein ligase that displays both E2 and E3 ligase activities and mediates monoubiquitination of target proteins (PubMed:23455153, PubMed:24703950). Negatively regulates TRAF6-mediated NF-kappa-B activation independently of its E2 activity (PubMed:23381138). Acts as a positive regulator of BMP7 signaling by mediating monoubiquitination of SMAD6, thereby regulating adipogenesis (PubMed:23455153). Mediates monoubiquitination at different sites of the nuclear localization signal (NLS) of BAP1, leading to cytoplasmic retention of BAP1. Also able to monoubiquitinate the NLS of other chromatin-associated proteins, such as INO80 and CXXC1, affecting their subcellular location (PubMed:24703950). Acts as a regulator of retrograde transport by assisting the TRIM27:MAGEL2 E3 ubiquitin ligase complex to mediate 'Lys-63'-linked ubiquitination of WASHC1, leading to promote endosomal F-actin assembly (PubMed:23452853). [UniProtKB/Swiss-Prot Function]

**Locus ID:** 63893

**MW:** 55.3