

Product datasheet for **SC333655**

Rad6 (UBE2A) (NM_001282161) Human Untagged Clone

Product data:

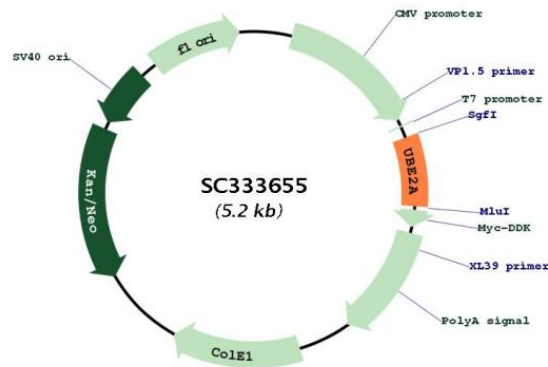
Product Type:	Expression Plasmids
Product Name:	Rad6 (UBE2A) (NM_001282161) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBE2A
Synonyms:	HHR6A; MRXS30; MRXSN; RAD6A; UBC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC333655 representing NM_001282161. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTGTGGAACGCGGTCATTTTCGGGCCTGAAGGGACCCGTTTGAGGATGGAACATTTAACTTACA
ATAGAATCACTGAAGAATATCCAAATAAACCACCTACAGTTAGATTTGTCTCTAAGATGTTCCATCCA
AATGTCTATGCAGATGGTAGTATATGTCTGGACATACTTCAGAACCGTTGGAGTCCAACCTATGATGTG
TCTTCCATTCTAACATCCATACAGTCTCTGTTGGATGAACCAATCCCAATAGTCCAGCAAACAGCCAG
GCTGCTCAGCTGTACCAGGAGAACAACGGGAATATGAAAAGCGTGTCTTCTGCAATAGTAGAACAACAG
TGGCGTGATTGTTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:


ACCN: NM_001282161

Insert Size: 360 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001282161.1](https://www.ncbi.nlm.nih.gov/RefSeq/record/NM_001282161.1)

RefSeq Size: 1871 bp

RefSeq ORF: 360 bp

Locus ID: 7319

UniProt ID: [P49459](#)

Cytogenetics: Xq24

Protein Families: Druggable Genome

Protein Pathways: Ubiquitin mediated proteolysis

MW: 13.6 kDa

Gene Summary: The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, ubiquitin-conjugating enzymes, and ubiquitin-protein ligases. This gene encodes a member of the E2 ubiquitin-conjugating enzyme family. This enzyme is required for post-replicative DNA damage repair, and may play a role in transcriptional regulation. Mutations in this gene are associated with cognitive disability. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

Transcript Variant: This variant (4) differs in its 5' UTR and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (4) has a shorter N-terminus, compared to isoform 1.