

Product datasheet for **SC127386**

Rad6 (UBE2A) (NM_181777) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rad6 (UBE2A) (NM_181777) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBE2A
Synonyms:	HHR6A; MRXS30; MRXSN; RAD6A; UBC2
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_181777, the custom clone sequence may differ by one or more nucleotides

[ATGTTCCATCCAAATGTCTATGCAGATGGTAGTATATGTCTGGACATACTTCAGAACCGTTGGAGTCCAA
CCTATGATGTGTCTTCCATTCTAACATCCATACAGTCTCTGTTGGATGAACCCAATCCCAATAGTCCAGC
AAACAGCCAGGCTGCTCAGCTGTACCAGGAGAACAACGGGAATATGAAAAGCGTGTCTGCAATAGTA
GAACAAAGCTGGCGTGATTGTTGA](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_181777 unedited
TCATAATTTGTATACGACTCACTATAGGCGGCACGCGAATTCGCACCAGGCGGTTCCCTCT
GGGTGCTTCCGCCTCCCCTTCTCCTGCTTCTCCAGCCTCTTCGGCCTCCTCGCCCGCCGC
GGGAACCCGAGACCCAGTGTATGCCCCACCCCTGACCCCGCTCGCGACATGTCCACCCC
GGCTCGGGCGGCCTCATGCGGGACTTCAAGAGGTTGCAGGAGGATCCTCCAGCCGGAGT
CAGCGGGGCTCCGTCCGAGAACAACATAATGGTGTGGAACGCGGTCAATTTGGGCTGA
AGGGACCCCGTTTGAGGATGGAACATTTAACTTACAATAGAATCACTGAAGAATATCC
AAATAAACCCACTACAGTTAGATTTGTCTTAAGATGTTCCATCCAAATGTCTATGCAGA
TGGTAGTATATGTCTGGACATACTTCAGAACCGTTGGAGTCCAACCTATGATGTGTCTTC
CATTCTAACATCCATACAGTCTCTGTTGGATGAACCCAATCCCAATAGTCCAGCAACAG
CCAGGCTGCTCAGCTGTACCAGGAGAACAACGGGAATATGAAAAGCGTGTCTGCAAT
AGTAGAACAAAGCTGGCGTGATTGTTGACCCAGGTACAGTTTATAGAAGCTGGCCATAA
GATAAAATATATTGATGTGTTTGTACCTCCCTACTCCTGTGATTACATTTACTGTATTA
AAAGCGAAATAACTGGTGTGCTGTTTCCATCCTTCTTGCCAAGGTTTACTACCCCTTCTA
CCCTCTCCTTAAACATCAGAAACACCCTCTATGAAATAAATGACTGTACCTGGGTTACT
TNGCAAAATACTATGGCTCAGNTNNTCTGTTGGATTCATTTCCAGNTTCAGGCAGNTATT
TTTATTATGGACTCTAAGCTTTAGAAGAAATGTATACAGAAGTGCTATGCTNACCTGAGA
C



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Restriction Sites:	NotI-NotI
ACCN:	NM_181777
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:	<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_181777.1</u> , <u>NP_861442.1</u>
RefSeq Size:	2678 bp
RefSeq ORF:	234 bp
Locus ID:	7319
Cytogenetics:	Xq24
Protein Families:	Druggable Genome
Protein Pathways:	Ubiquitin mediated proteolysis
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks several 5' exons but has an alternate 5' segment, as compared to variant 1. It uses a downstream in-frame start codon and encodes isoform 3, which has a shorter N-terminus than that of isoform 1.</p>