

## Product datasheet for **SC109859**

### Rad6 (UBE2A) (NM\_003336) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rad6 (UBE2A) (NM_003336) Human Untagged Clone
Tag:	Tag Free
Symbol:	Rad6
Synonyms:	HHR6A; MRXS30; MRXSN; RAD6A; UBC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109859 sequence for NM_003336 edited (data generated by NextGen Sequencing)

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ATGTCCACCCCGCTCGGCGGCCTCATGCGGGACTTCAAGAGTTGCAGGAGGATCCT
CCAGCCGGAGTCAGCGGGCTCCGTCCGAGAACAACATAATGGTGTGGAACGCGGCATT
TTCGGGCTGAAGGGACCCGTTTGAGGATGGAACATTTAACTTACAATAGAATCACT
GAAGAATATCAAATAAACACCTACAGTTAGATTTGTCTCTAAGATGTTCCATCCAAAT
GTCTATGCAGATGGTAGTATATGTCTGGACATACTCAGAACC GTTGGAGTCCAACCTAT
GATGTGTCTTCCATTCTAACATCCATACAGTCTCTGTTGGATGAACCAATCCCAATAGT
CCAGCAAACAGCCAGGCTGCTCAGCTGTACCAGGAGAACAACGGGAATATGAAAAGCGT
GTTTCTGCAATAGTAGAACAAGCTGGCGTGATTGTTGA
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Clone variation with respect to NM\_003336.2



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_003336 unedited GTCAAGATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCGACTTCGGA GAGGCAGCGCGGTTCTCTGGGTGCTTCCGCCTCCCTTCTCCTGCTTCTCCAGCCTCTT CGGCCTCCTCGCCCGCCGCGGGAACCCGAGACCCAGTGTATGCCCCACCCTGACCCCG CTCGCGACATGTCCACCCCGCTCGGCGGCGCCTCATGCGGGACTTCAAGAGGTTGCAGG AGGATCCTCCAGCCGGAGTCAGCGGGGCTCCGTCCGAGAACAACATAATGGTGTGGAACG CGGTCATTTTCGGGCCTGAAGGGACCCCGTTTGAGGATGGAACATTTAACTTACAATAG AATTCACCTGAAGAATATCCAAATAAACACCTACAGTTAGATTTGTCTTAAGATGTTCC ATCCAAATGTCTATGCAGATGGTAGTATATGTCTGGACATACTTCAGAACC GTTGAGTC CAACCTATGATGTGCTTCCATTCTAACATCCATACAGTCTCTGTTGGATGAACCAATC CCAATAGTCCAGCAAACAGCCAGGCTGCTCAGCTGTACCAGGAGAACANACGGGAATAG AAAAGCGTGTCTGNCATAGTAGAACAAAGCTGGCGTGATTGTTGACCCCGGTACAGT TTAAGAAAGCTGCCATAGAAAATATATANTGATGTGTTGTCACCTCCCTACTNCTGT CATTACATTTACTTTATTAAGCAAAAATAACTGGTGTGCTGTTCCCATCTTCTTGCCA AGTTTTCTACCCTCTACCCTTCTTAACATCAGAAACAACCTCTTTGAAAATCAATG TACTGTACCCTGGTTACTCTGGCAAAAATAACTAAGGCTCCAGTTTTTNCGGGTGAATTC CATTTCCAAGTTTCCAGGCCGTTATTTTTATTATTGACCTTAAGGCTTT
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_003336 unedited TTTTTTTTTTTTTTATGAAATTTTAAGGTTATTTTTATTTACAACCTTTGAAAAAGTAC ATTTTTTTTTTACATGGGTTACTTGTGCAAAGTTAGATTTGGAAGTGATAAATGCATAAAA GGTGACAATAGAACATTAGACAAAACATTTACAAGCCTTGTCCCATACTGCTACTTAAAG GTACTATATATCTAAAAGTATAAATATCCAAAAAAGATCGCAGACATTGGCTTTAAGGT TCTCAGATGCTGAAAGGGAG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003336
<b>Insert Size:</b>	1820 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_003336.2</a> , <a href="#">NP_003327.2</a>
<b>RefSeq Size:</b>	1799 bp
<b>RefSeq ORF:</b>	459 bp
<b>Locus ID:</b>	7319

UniProt ID:	<a href="#">P49459</a>
Cytogenetics:	Xq24
Domains:	UBCc
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 (1) encodes the longest isoform (1).</p>