

Product datasheet for **SC114662**

REXO2 (NM_015523) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	REXO2
Synonyms:	CGI-114; REX2; RFN; SFN
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_015523, the custom clone sequence may differ by one or more nucleotides

ATGCTAGGCGGCTCCCTGGGCTCCAGGCTGTTGCGGGGTGTAGGTGGGAGTCACGGACGGTTCGGGGCCC
GAGGTGTCCGCGAAGGTGGCGCAGCCATGGCGGCAGGGGAGAGCATGGCTCAGCGGATGGTCTGGGTGGA
CCTGGAGATGACAGGATTGGACATTGAGAAGGACCAGATTATTGAGATGGCCTGTCTGATAACTGACTCT
GATCTCAACATTTTGGCTGAAGGTCTTAACCTGATTATAAAACAACCAGATGAGTTGCTGGACAGCATGT
CAGATTGGTGAAGGAGCATCACGGGAAGTCTGGCCTTACCAAGGCAGTGAAGGAGAGTACAATTACATT
GCAGCAGGCAGAGTATGAATTTCTGTCCTTTGTACGACAGCAGACTCCTCCAGGGCTCTGTCCACTTGCA
GGAAATTCAGTTCATGAAGATAAGAAGTTTCTTGACAAATACATGCCCCAGTTCATGAAACATCTTCATT
ATAGAATAATTGATGTGAGCACTGTTAAAGAACTGTGCAGACGCTGGTATCCAGAAGAATATGAATTTGC
ACCAAGAAGGCTGCTTCTCATAGGGCACTTGATGACATTAGTGAAAGCATCAAAGAGCTTCAGTTTTAC
CGAAATAACATCTTCAAGAAAAAATAGATGAAAAGAAGAGGAAAATTATAGAAAATGGGGAAAATGAGA
AGACCGTGAGTTGA



5' Read Nucleotide
Sequence:

>OriGene 5' read for NM_015523 unedited
 ATTTTGAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGGCTGCTGGTCC
 CGGGTGATGCTAGGCGGCTCCCTGGGCTCCAGGCTGTTGCGGGGTGTAGGTGGGAGTCAC
 GGACGGTTTCGGGGCCCGAGGTGTCCGCAAGGTGGCGCAGCCATGGCGGCAGGGGAGAGC
 ATGGCTCAGCGGATGGTCTGGGTGGACCTGGAGATGACAGGATTGGACATTGAGAAGGAC
 CAGATTATTGAGATGGCCTGTCTGATAACTGACTCTGATCTCAACATTTTGGCTGAAGGT
 CCTAACCTGATTATAAAACAACAGATGAGTTGCTGGACAGCATGTCAGATTGGTGAAG
 GAGCATCACGGGAAGTCTGGCCTTACCAAGGCAGTGAAGGAGAGTACAATTACATTGCAG
 CAGGCAGAGTATGAATTTCTGTCTTTGTACGACAGCAGACTCCTCCAGGGCTCTGTCCA
 CTTGCAGGAAATTCAGTTCAAGATAAGAAGTTTCTTGACAAATACATGCCCCAGTTT
 ATGAAACATCTTCATTATAGAATAATTGATGTGAGCACTGTTAAAGAACTGTGCAGACGC
 TGGTATCCAGAAGAATATGAATTTGCACCANAGAAGGCTGCTTCTCATAGGGCACTTGAT
 GACATTAGTGAAAGCATCAAAGAGCTTCAGTTTTACCCGAAATACATCTTTCAGAANAAA
 ATAGATGAAAGAAGAGGNAATTATTAGAAATGGGGAAATGAGAAGACCCGTGAGTGA
 TGCCAGTTATCATGCTGCCACTACATCNGTATCTGGAGGCACTTTCTTGGTTTTTTTTT
 CTACGCTGATGGCTTGGCAGAGCACCTTCGNTAACTGCATCTCACGATGATACCTCAGC
 GACAGCCACGAATCTTTTTTTTCTAA

3' Read Nucleotide
Sequence:

>OriGene 3' read for NM_015523 unedited
 TGTACCGCGNGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTGCATTTCAAT
 AGAACTAGCTTTTACTTTATTTATTTTAAACAAAAGAAATGGTTTAAAGCAAAT
 GCATATATGTACCAAGGGATGGACATGACCTGGTACTTACAAAGGAGCTGCTGTGCATA
 ATGGAAACAGCATATTAGGAGAAAAATAGTATTCGTGTGCTGTCTGTGAGTAATCAA
 TCTGGAGATGCAAGTTAACCGAAGGTGCTCTGCCAAGCCATCAGCGTGAGAAAAAAAC
 CACCAGAAGTTGCCTCCAGATAACGATGTAGTGGCAGCATGATAACTGGCATCAACTCAC
 GGTCTTCTCATTTTCCCATTTTCTATAATTTCTCTTCTTTTCTATTTTCTT
 GAAGATGTTATTTCCGTAAGCTCTTTGATGCTTTCACTAATGTCATCAAGTGC
 CCTATGAGAAGCAGCCTTCTTTGGTGCAATTCATATCTTCTGGATACCAGCGTCTGCA
 CAGTCTTTTAAAGTGTCTCACATCAATTATTCTATAATGAAGATGTTTCATGAACTGGGG
 CATGATTTTGTCAAGAACTTCTTATCTTCATGAACTGAATTTCTGCAAGTGGACAGAG
 CCCTGGAGGAGTCTGCTGTCGTACAAAGGACAGAAATCATACTCTGCCTGCTGCAATGT
 AATTGTACTCTCTTCACTGCCTTGGGAAAGCCAGACTTTCCGTGATGCTCCTTACACAA
 TCTGACATGCTGTCCAGCAACTATCTTGTGTTTATATCAGGTATGACCTTCACCCAA
 TGGTGAAATCAAAGTCATTTTAAACAGGCCTCTCAATAATCGGCCCTTTCAAAGGCCCAA
 TCCGTTATTTCCAGGCCCCCAAA

Restriction Sites:

NotI-NotI

ACCN:

NM_015523

Insert Size:

1140 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_015523.1, NP_056338.1</u>
RefSeq Size:	1113 bp
RefSeq ORF:	714 bp
Locus ID:	25996
UniProt ID:	<u>Q9Y3B8</u>
Cytogenetics:	11q23.2
Domains:	EXOIII
Gene Summary:	This gene encodes a 3'-to-5' exonuclease specific for small (primarily 5 nucleotides or less in length) single-stranded RNA and DNA oligomers. This protein may have a role in DNA repair, replication, and recombination, and in RNA processing and degradation. It may also be involved in resistance of human cells to UV-C-induced cell death through its role in the DNA repair process. [provided by RefSeq, Nov 2011]