

## Product datasheet for SC113573

### Renalase (RNLS) (NM\_018363) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Renalase (RNLS) (NM_018363) Human Untagged Clone
Tag:	Tag Free
Symbol:	Renalase
Synonyms:	C10orf59; RENALASE
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113573 sequence for NM_018363 edited (data generated by NextGen Sequencing)

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ATGGCGCAGGTGCTGATCGTGGCGCCGGGATGACAGGAAGCTTGTGCGCTGCGCTGCTG
AGGAGGCAGACGTCCGGTCCCTTGACCTTGCTGTGTGGGACAAGGCTGAGGACTCAGGG
GGAAGAATGACTACAGCCTGCAGTCCTCATAATCCTCAGTGACAGCTGACTTGGGTGCT
CAGTACATCACCTGCACTCCTCATTATGCCAAAAACACCAACGTTTTTATGATGAACTG
TTAGCCTATGGCGTTTTGAGGCCTCTAAGCTCGCCTATTGAAGGAATGGTATGAAAGAA
GGAGACTGTAACCTTGTGGCACCTCAAGGAATTTCTCAATTATTAAGCATTACTTGAAA
GAATCAGGTGCAGAAGTCTACTTCAGACATCGTGTGACACAGATCAACCTAAGAGATGAC
AAATGGGAAGTATCCAAACAAACAGGCTCCCCTGAGCAGTTTGATCTTATTGTTCTCACA
ATGCCAGTTCCCTGAGATTCTGCAGCTTCAAGGTGACATCACACCTTAATTAGTGAATGC
CAAAGGCAGCAACTGGAGGCTGTGAGCTACTCCTCTCGATATGCTCTGGGCCTCTTTTAT
GAAGCTGGTACGAAGATTGATGTCCCTTGGGCTGGGCAGTACATCACAGTAATCCCTGC
ATACGCTTCGTCTCCATTGATAATAAGAAGCGCAATATAGAGTCATCAGAAATTGGGCCT
TCCCTCGTGATTCACACCACTGTCCCATTTGGAGTTACATACTTGAACACAGCATTGAG
GATGTGCAAGAGTTAGTCTTCCAGCAGCTGAAAAACATTTGCCGGGTTTGCCTCAGCCA
ATTGCTACCAAATGCCAAAAATGGAGACATTCACAGGTACCAAGTGTCTGGTGTGATTCTA
GGATGTGCGAAGAGCCCCCTGGATGATGGCGATTGGATTCCCATCTGA

```

Clone variation with respect to NM\_018363.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_018363 unedited  
 NGGGGTTTGAGGGAAATGTGAACCCAGTATCACTATAGGGCGGNCCGCAATCGGCACAG  
 GCCCAGGAGCACGGAACAAGACGCTAGCGCCGGTTCGGACGACTTTCAGAAAGCCCGG  
 GCCGAACGGCCCCGCCGAGAGACACCCGCGGATCGTGCTCCCTCTCGCCATGGCGCA  
 GGTGCTGATCGAGGGCGCCGGGATGACAGGAAGCTTGC GCGCTGCGCTGCTGAGGAGGCA  
 GACGTCGGTCCCTTGTACCTTGTGTGGGACAAGGCTGAGGACTCAGGGGGAAGAAT  
 GACTACAGCCTGCAGCCCTCATAATCCTCAGTGCACAGCTGACTTGGGTGCTCAGTACAT  
 CACACGCACTCCTCATTATGCCAAAAACACCAACGTTTTTATGATGAACTGTTAGCCTA  
 TGGCGCTCACAGGCCTCTAAGCTCGCCTATTGACGGAATGGTGATGAAAGAATGAGACTG  
 TAACCTTGTGGCACCTCAAGGAATTTCTCAATTATTAAGCATTACTTGAAAGAATCAGG  
 TGCAGAAGTCTACTTCAGACATCGTGCGACACAGATCAACCTAAGAGATGACAAATGGGA  
 AGTATCCAAACAAACCAGGCTCCCCTGAGCAGCTCGATCTTATTGTTCTCACAATGCCAG  
 TTCTGAGATTTTGCAGCTTCAAGGTGACATCACCACTTACTTAGTGAATGCCAAAGGC  
 TGCAACTGGAGGCTGTGAGCTACTCTCGATAGCTCTGGGCCTCTTTAGGAAGCTGG  
 CACCAACATTGATCGTCCCTTGGCTGGGCCATACAATACCAGCAACCCCGCATCCGCT  
 CTCCTCCCTTGAACCTCACACGCCTCCCTCTACGTCTCAAAATTGGGCCTTCCCTCGTAA  
 TCAG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_018363 unedited  
 CGCGGCCCAATCTANAGTCGAGTNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGATC  
 TATTAATAATTTTATTCAGCCATTTCTGTAGTGGTGATTTAGGGTATTTCCAGTTTTCCA  
 CTATCATAACTAATGCTTAAATAAACATATTGCAAATAAACCATCGTCTGCATCCTGGAT  
 TATTTCTTAAAGCCAGACTCCTAGATGAAATTTATTGAGTTAGAAAACATGCTTTAAAAA  
 ACACTTGATACATATTGCCACTTACTATGCGAACAGGATGTGAAAGTTTTCACTGTACC  
 AGTCATTTTAATCCCTGATTAGAAATTTAGTCATTCAAAAAAAATGCCAAATTGATAGGT  
 TAAAAATTACGTTTCATTATAGGTTTTAATTTGGATACTTTTTGTTTACTCATAAGGCAG  
 AACACGATTTTAAATATAAACACACCTTCTTAAACCTACATTTGTACACATTTTGATTAC  
 TCATGAGGCACAACATGTTTCATATATATTGGGGGGCGGGGATTTTTTCCCATTTGGTTGG  
 GCATTTCCCTTAAACAGGACGCCAAAAGATAAAGAAATAGATTTAACTTATTTTTCTGCT  
 ACAAAGAGGGGCCCAACAATTCTTGTGATTTGAAAAGCCCTCTCCTTTTTCGACACAAA  
 AAAAAATAATCTCCCCTTTTTCGGGGGCGAATTTCTTTTCTTAGCGCGGGTGAGCTCAC  
 TCCTTTAACCAGCCTATTGCGCCCTTATCTCTCCACTGGGTGCAACTTTCCGGTGAT  
 CCCTTCCAGAGTCTTTCCCTGCCACCCACCAGGTTCCCCCCTCCCTTATGTCCCCCCTC  
 CTTTTACCGCCTCCGCTACCACTTCTTGTGCGACCCCTGTTCTCTATCTTCTCCTCCT  
 TATCCCCCTCCCTATTTCCCTCCCTTCTTTCCCTCATTCCCGTGACGCGCTTACTA  
 TCCAGGCCCACTCCCCGCCATATCCCATTTCCCCGCCTAAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_018363

**Insert Size:**

2700 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\\_018363.1](#), [NP\\_060833.1](#)

**RefSeq Size:** 2107 bp

**RefSeq ORF:** 948 bp

**Locus ID:** 55328

**UniProt ID:** [Q5VYX0](#)

**Cytogenetics:** 10q23.31

**Protein Families:** Secreted Protein

**Gene Summary:** Renalase is a flavin adenine dinucleotide-dependent amine oxidase that is secreted into the blood from the kidney (Xu et al., 2005 [PubMed 15841207]).[supplied by OMIM, Mar 2008]  
Transcript Variant: This variant (2) differs in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (2) has a distinct C-terminus and is shorter than isoform 1.