OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC333226

DUOXA1 (NM_001276264) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: DUOXA1 (NM_001276264) Human Untagged Clone

Tag: Tag Free

Symbol: DUOXA1

Synonyms: mol; NIP; NUMBIP

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC333226 representing NM_001276264.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGCTACTTTGGGACACACATTCCCCTTCTATGCTGGCCCCAAGCCAACCTTCCCGATGGACACCACT
TTGGCCAGCATCATCATGATCTTTCTGACTGCACTGGCCACGTTCATCGTCATCCTGCCTGGCATTCGG
GGAAAGACGAGGCTGTTCTGGCTGCTTCGGGTGGTGACCAGCTTATTCATCGGGGCTGCAATCCTGGCT
GTGAATTTCAGTTCTGAGTGGTCTGTGGGCCAGGTCAGCACCAACACATCATACAAGGCCTTCAGTTCT
GAGTGGATCAGCGCTGATATTGGGCTGCAGGTCGGGCTGGGTGGAGTCAACATCACACTCACAGGGACC
CCCGTGCAGCAGCTGAATGAGACCATCAATTACAACGAGGAGTTCACCTGGCGCCTGGGTGAGAACTAT
GCTGAGGAGTATGCAAAGGCTCTGGAGAAGGGGCTGCCAGACCCTGTGTTGTACCTAGCTGAGAAGTTC
ACTCCAAGAAGCCCATGTGGCCTATACCGCCAGTACCGCCTGGCGGGACACTACACCTCAGCCATGCTA
TGGGTGGCATTCCTCTGCTGGCTGCTGGCCAATGTGATGCTCTCCATGCCTGTGCTGGTATATGGTGGC
TACATGCTATTGGCCACGGGCATCTTCCAGCTGTTGGCTCTGCTCTTCTTCTCCATGGCCACATCACTC
ACCTCACCCTGTCCCCTGCACCTGGGCGCTTCTGTGCTGCATACTCACCATGGGCCTGCCTTCTGGATC
ACATTGACCACAGGACTGCTGTGTGTGCTGCTGGGCCTGGCTATGGCGGTGGCCCACAGGATGCAGCCT
CACAGGCTGAAGGCTTTCTTCAACCAGAGTGTGGATGAAGACCCCATGCTGGAGTGGAGTCCTGAGGAA
GGTGGACTCCTGAGCCCCCGCTACCGGTCCATGGCTGACAGTCCCAAGTCCCAGGACATTCCCCTGTCA
GAGGCTTCCTCCACCAAGGCATACTATCGCCCCAGGAGACTTTCCCTGGTGCCTGCGGATGTCCGAGGC
CTCGCGCCAGCAGCGCTCAGTGCCCTTCCTGGAGCTCTCCTGGCCCAGGCCTGGCGGGCACTGCTTCCC
GGCCTGCGATGTCCCAAGGCGGGGAAGGAGTCCAGATTGGGTCCCCCTCACAGTCCTTGGCGCTTTGGT
CCAGAAGGGTGCGAAGAGCGCTGGGCCGAACATACTGGAGACTCACCACGGCCCCTCCGAGGAAGAGGC
ACAGGACGCCTGTGGCGGTGGGGATCGAAAGAAAGGAGGGCATGTGGAGTCAGGGCTATGTTGCCCAGG
CTGGTCTCGAACTCTGGCCTCAAACGACCTTCCTGCCTCGACCTCCCAAAGTGCTGGGATTACAGGCGT
GATGCCCGGGCCTTCTTCCATCTTTTGGAGCCTACCCCTTGTGTTACCTCCCGCCACACACCTCTAATC
TGA

Restriction Sites: SgfI-MluI

ACCN: NM_001276264

Insert Size: 1452 bp

View online »

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_001276264.1
RefSeq Size:	1990 bp
RefSeq ORF:	1452 bp
Locus ID:	90527
UniProt ID:	Q1HG43
Cytogenetics:	15q21.1
Protein Families:	Transmembrane
MW:	53.5 kDa
Gene Summary:	Dual oxidases DUOX1 and DUOX2 are NADPH oxidases which are involved in hydrogen peroxide production necessary for thyroid hormonogenesis. They form a heterodimer with specific maturation factors DUOXA1 and DUOXA2, respectively, which is essential for the maturation and function of the DUOX enzyme complexes. This gene encodes the DUOX1 activator or maturation factor DUOXA1. Rat studies identified a bidirectional promoter which controls the transcription of the DUOX1 and DUOXA1 genes. This protein is cotransported to the cell surface when coexpressed with DUOX1 and is retained in the endoplasmic reticulum when expressed without DUOX1 protein. The expression of this gene or the DUOX1 gene is not suppressed by thyroglobulin (Tg), a macromolecular precursor in thyroid hormone synthesis, while the expression of the DUOX2 and DUOXA2 are significantly suppressed by the Tg. This protein is also a p53-regulated neurogenic factor involved in p53 dependent neuronal differentiation. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2013] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform 1.