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Product datasheet for RC237294

DNASE1L2 (NM_001301680) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	DNASE1L2
Synonyms:	DNAS1L2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC237294 representing NM_001301680
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGGGCCCCGGGCTCTGCTGGCCGCACTCTGGGCGCTGGAAGCCGCCGGGACCGCCGCGCTTCGCA
TCGGAGCCTTCAACATTCAGAGCTTCGGTGACAGCAAAGTGTCGGACCCCGCTTGCGGCAGCATCATCGC
GAAGATCCTGGCTGGCTATGACCTCGCGCTGGTGCAGGAGGTGCGAGACCCAGACCTCAGCGCCGTGTCC
GCGCTCATGGAGCAGATCAACAGCGTGTCCGAGCACGAGTACAGCTTTGTGAGCAGCCAGCCCCTGGGCC
GGGACCAGTACAAGGAGATGTACCTGTTCGTGTACAGGAAAGACGCGGTGTCGGTCGTGGACACCTACCT
GTACCCAGACCCCGAGGACGTCTTCAGCCGCGAGCCCTTCGTGGTCAAGTTCTCGGCCCCCGGCACCGGT
GAGCGGGCCCCGCCCCTCCCCTCCCGCCGAGCTCTGACGCCCCCACCCCTTCCCGCAGCAGCACAGAACC
TGGTGCTGATCCCGCTGCACGCGGCGCCGCATCAAGCCGTGGCGGAGATCGACGCGCTCTACGACGTGTA
CCTGGACGTGATCGACAAGTGGGGCACCGACGACATGCTGTTCCTGGGCGACTTCAACGCCGACTGCAGC
TATGTGCGGGCGCAGGACTGGGCCGCCATCCGTCTGAGGAGCAGTGAGGTCTTCAAGTGGCTCATCCCTG
ACAGCGCCGACACCACGGTGGGCAACTCAGACTGCGCCTACGACCGCATTGTGGCCTGTGGCGCCCGCCT
GCGCCGGAGCCTGAAGCCCCAGTCGGCCACCGTGCACGACTTCCAGGAGGAATTCGGCCTGGACCAGACT
CAGGCTCTTGCCATCAGCGACCACTTTCCAGTGGAGGTGACCCTCAAGTTCCACCGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC237294 protein sequence
Red=Cloning site Green=Tags(s)

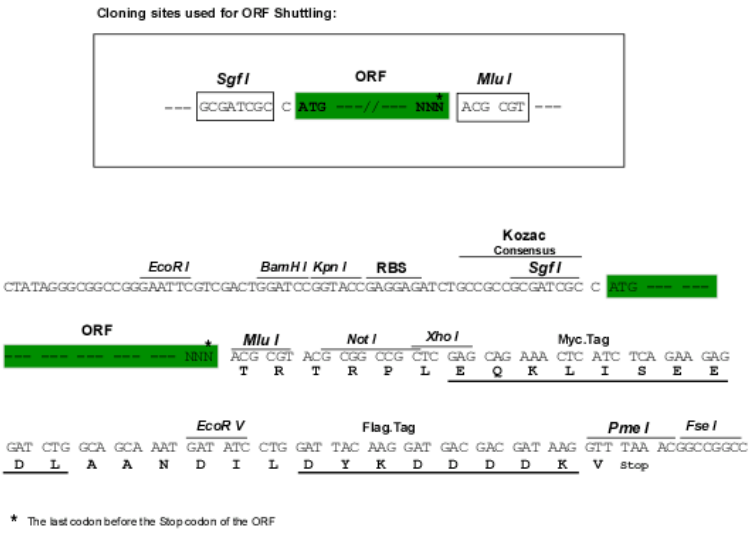
MGGPRALLAALWALEAAGTAALRIGAFNIQSFGDSKVSDPACGSIIAKILAGYDLALVQEVRDPDLSAVS
ALMEQINSVSEHEYSFVSSQPLGRDQYKEMYLFVYRKDAVSVVDTYLYPDPEDVFSREPFVVKFSAPGTG
ERAPPLPSRRALTPPPLPAAAQNLVLIPLHAAPHQAVAEIDALYDVYLDVIDKWGTDDMLFLGDFNADCS
YVRAQDWAAIRLRSSEVFKWLIPDSADTTVGNSDCAYDRIVACGARLRRSLKPQSATVHDFQEEFGLDQT
QALAISDHFPVEVTLKFHR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6820_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001301680

ORF Size: 897 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

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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: NM_001301680.2

RefSeq Size: 1342 bp

RefSeq ORF: 900 bp

Locus ID: 1775

UniProt ID: Q92874

Cytogenetics: 16p13.3

Protein Families: Secreted Protein

MW: 32.9 kDa

Gene Summary: Divalent cation-dependent acid DNA endonuclease involved in the breakdown of the nucleus during corneocyte formation of epidermal keratinocytes. May play an immune role by eliminating harmful DNA released into the extracellular environment by damaged epidermal cells.[UniProtKB/Swiss-Prot Function]

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