

## Product datasheet for MR219972

### Dnase1l2 (NM\_025718) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Dnase1l2 (NM\_025718) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Dnase1l2  
 Synonyms: 4733401H14Rik  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >MR219972 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGGATCGCC

ATGGGTTGGCCCTGGGCCCGCTGACAGCAGTTTGGGCACTGGGGTTCATGGGAGCCACAGCGCTGCGGA  
 TTGGAGCCTTCAATGTTTCAGAGCTTTGGAGACAACAAAGTGTGAGATCCAGACTGTGGCAGTGTATAGC  
 ACAGATCCTGGCCGGCTATGATATCGCCCTGGTGAAGAGGTACGAGACCCAGACCTAAGTGCAGTGTCC  
 TTGCTCATGGAGCAAATTAACAGAGTGTCCAAGCAGGACGAGTACGGCTTTGTGAGCAGCAAGCCACTCGGAC  
 GTGACCAGTACAAGGAAATGTACCTGTTTGTCTACAGGAAAGATGTAGCGTCAGTGGTGAGCACGTACCA  
 GTATCCAGACCCAGAGGACGCTTTCAGCCGGGAGCCTTTTGTGGTCAAATTCCTCAGTTCCTAGCTGTGCC  
 ACCAAGGAGCTGGTGCTGATCCCCCTCCATGCAGCACCACACCAGGCGGTGGCAGAGATCGATGCGCTCT  
 ACGATGTGTACCTTGATGTCATTGACAAGTGAACACTGATGACATGCTGTTTCTGGGTGACTTTAATGC  
 CGATTGCAAGTATGTGAAGGCGCATGACTGGCCATCGATCCGCCTTCGAAGCAGTGAGGTGTTTAAATGG  
 CTCATCCAGACAGTGGGACACCACAGTGGGCAACTCAGACTGTGCCTATGACCGGATTGTAGTGAGTG  
 GCGCCCATCTGCGCAGGAGCCTGAAGCCCACTCAGCCTCAGTTCACAACCTTTCAGGAGGAATTTGACCT  
 AGATCAGACCCAGGCTCTTGCCATCAGTGACCATTTTCTGTGGAAGTACTTTCAAGACTCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR219972 protein sequence  
Red=Cloning site Green=Tags(s)

MGWPWAPLTAVWALGVMGATALRIGAFNVQSFQDNKVSQSDPDCGSVIAQILAGYDIALVQEVDPDLSAVS  
 LLMEQINRVSKHEYGFVSSKPLGRDQYKEMYL FVYRKDVASVSTYQYPDPEDAFSREPFVVKFSVPSCA  
 TKELVLIPLHAAPHQAVAEIDALYDVYLDVIDKWNTDDMLFLGDFNADCKYVKAHDWPSIRLSSEVFKW  
 LIPDSADTTVGNSDCAYDRIVVSGAHLRRSLKPHSASVHNFQEEFDLDQTQALAI SDHFPVEVTFKTH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_025718

**ORF Size:** 837 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).

**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\\_025718.1](#), [NM\\_025718.2](#), [NM\\_025718.3](#), [NP\\_079994.2](#)

**RefSeq Size:** 1236 bp

**RefSeq ORF:** 837 bp

**Locus ID:** 66705

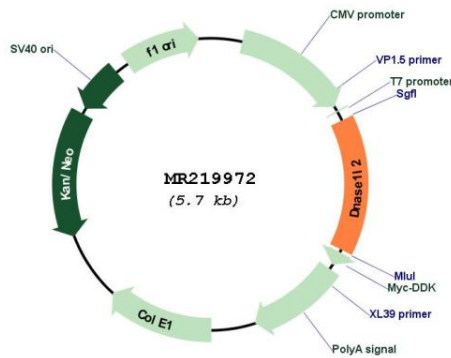
**UniProt ID:** [Q9D1G0](#)

**Cytogenetics:** 17 A3.3

**MW:** 31.1 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 (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR219972