

Product datasheet for **RG222905**

DNASE1L2 (NM_001374) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNASE1L2 (NM_001374) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNASE1L2
Synonyms:	DNAS1L2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222905 representing NM_001374 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGGGCCCCGGCTCTGCTGGCCGCACTCTGGGCGCTGGAAGCCGCCGGGACCGCCGCGCTTCGCA
TCGGAGCCTTCAACATTCAGAGCTTCGGTGACAGCAAAGTGTCCGACCCCGCTTGCAGCAGCATCATCGC
GAAGATCCTGGCTGGCTATGACCTCGCGCTGGTGCAGGAGGTGCGAGACCCAGACCTCAGCGCCGTGTCC
GCGCTCATGGAGCAGATCAACAGCGTGTCCGAGCAGGATACAGCTTTGTGAGCAGCCAGCCCTGGGCC
GGGACCAGTACAAGGAGATGTACCTGTTGTTGACAGAAAGACGCGGTGTCGGTCGTGGACACCTACCT
GTACCCAGACCCCGAGGACGTCTTCAGCCGCGAGCCCTTCGTGGTCAAGTTCTCGGCCCCCGGCACCGGT
GAGCGGGCCCCCGCCCTCCCTCCCGCCGAGCTCTGACGCCCCACCCCTTCCCGCAGCAGCACAGAACC
TGGTGCTGATCCCGCTGCACGCGCGCCGATCAAGCCGTGGCGGAGATCGACGCGCTCTACGACGTGTA
CCTGGACGTGATCGACAAGTGGGGCACCAGCAGATGCTGTTCTGGGCGACTTCAACGCCGACTGCAGC
TATGTGCGGGCGCAGGACTGGGCCCATCCGTCTGAGGAGCAGTGAGGTCTTCAAGTGGCTCATCCCTG
ACAGCGCCGACACCAGGTGGGCAACTCAGACTGCGCCTACGACCGCATTGTGGCCTGTGGCGCCCGCT
GCGCCGGAGCCTGAAGCCCCAGTCGGCCACCGTGCACGACTTCCAGGAGGAATTCGGCTGGACCAGACT
CAGGCTTTGCCATCAGCGACCACTTCCAGTGGAGGTGACCCTCAAGTTCACCGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222905 representing NM_001374
Red=Cloning site Green=Tags(s)

MGGPRALLAALWALEAAGTAALRIGAFNIQSFQSKVSDPACGSIIAKILAGYDLALVQEVDPDL SAVS
 ALMEQINSVSEHEYSFVSSQPLGRDQYKEMYL FVYRKDAVSVD TYL YPDPEDVF SREPFVVKFSAPGTG
 ERAPPLPSRRALTPPPLPAAAQNLVLIPLHAAPHQAVAEIDALYDVYLDVIDKWTDDMLFLGDFNADCS
 YVRAQDWAAIRLSSEVFKWLI PDSADTTVGNSDCAYDRIVACGARLRRLKPKQSATVHDFQE EFGLDQT
 QALAI SDHFPVEVTLKFHR

TRTRPLE - GFP Tag - V

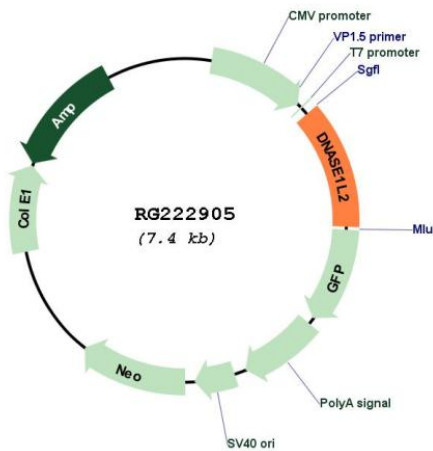
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001374

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).
Reconstitution Method:	<ol style="list-style-type: none">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_001374.3
RefSeq Size:	1365 bp
RefSeq ORF:	900 bp
Locus ID:	1775
UniProt ID:	Q92874
Cytogenetics:	16p13.3
Protein Families:	Secreted Protein
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]