

Product datasheet for **RG205611**

DNase gamma (DNASE1L3) (NM_004944) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNase gamma (DNASE1L3) (NM_004944) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNase gamma
Synonyms:	DHP2; DNASE1L3; LSD; SLEB16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205611 representing NM_004944 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCACGGGAGCTGGCCCCACTGCTGCTTCTCCTCTCCATCCACAGCGCCCTGGCCATGAGGATCT
 GCTCCTTCAACGTCAGGTCCTTTGGGAAAGCAAGCAGGAAGACAAGAATGCCATGGATGTCATTGTGAA
 GGTCATCAAACGCTGTGACATCATACTCGTGATGGAAATCAAGGACAGCAACAACAGGATCTGCCCCATA
 CTGATGGAGAAGCTGAACAGAAATCAAGGAGAGGCATAACGTACAACATATGTGATTAGCTCTCGGCTTG
 GAAGAAACACATATAAAGAACAATATGCCTTTCTCTACAAGGAAAAGCTGGTGTCTGTGAAGAGGAGTTA
 TCACTACCATGACTATCAGGATGGAGACGAGATGTGTTTTCCAGGGAGCCCTTTGTGGTCTGGTTCCAA
 TCTCCCCACACTGCTGTCAAAGACTTCGTGATTATCCCCCTGCACACCACCCAGAGACATCCGTTAAGG
 AGATCGATGAGTTGGTTGAGGTCTACACGGACGTGAAACACCGCTGGAAGGCGGAGAATTCATTTTCAT
 GGGTGACTTCAATGCCGGCTGCAGCTACGTCCCAAGAAGGCCTGGAAGAACATCCGCTTGAGGACTGAC
 CCCAGGTTTGTGGCTGATCGGGACCAAGAGGACACCACGGTGAAGAAGAGCACCAACTGTGCATATG
 ACAGGATTGTGCTTAGAGGACAAGAAATCGTCAGTCTGTTGTTCCCAAGTCAAACAGTGTTTTGACTT
 CCAGAAAGCTTACAAGCTGACTGAAGAGGAGGCCCTGGATGTGAGCGACCACTTCCAGTTGAATTTAAA
 CTACAGTCTTCAAGGGCCTTACCAACAGCAAAAAATCTGTCACTCTAAGGAAGAAAACAAGAGCAAAC
 GCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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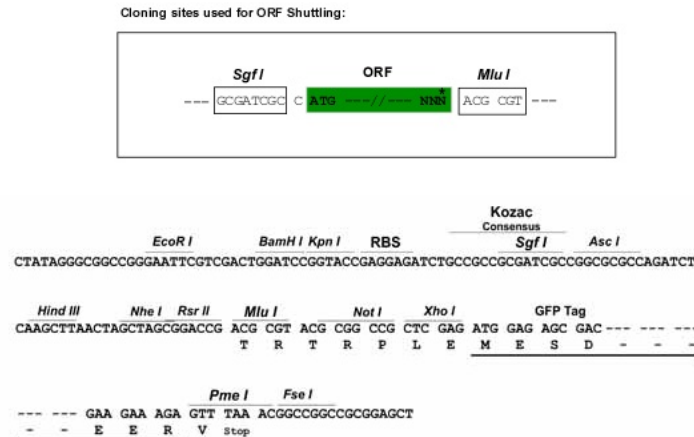
Protein Sequence: >RG205611 representing NM_004944
 Red=Cloning site Green=Tags(s)

MSRELAPLLLLLSIHSALAMRICSFNVRSGESKQEDKNAMDVIVKVIKRCDIILVMEIKDSNNRICPI
 LMEKLNRRNSRRGITYNYVISSRLGRNTYKEQYAFLYKEKLVSVKRSYHYHDYQDGDADVFSREPFVWWFQ
 SPHTAVKDFVVIPLHTTPETSVKEIDELVEVYTDVKHRWKAENFIFMGDFNAGCSYVPPKAWKNIRLRTD
 PRFVWLIGDQEDTTVKKSTNCAYDRIVLRGQEIYSSVVPKSNVDFQKAYKLTETEEALDVSDHFPVEFK
 LQSSRAFTNSKKSVTLRKKTKSKRS

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004944

ORF Size: 915 bp

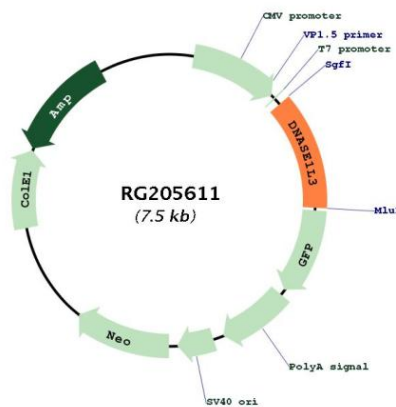
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_004944.4
RefSeq Size:	1463 bp
RefSeq ORF:	918 bp
Locus ID:	1776
UniProt ID:	Q13609
Cytogenetics:	3p14.3
Domains:	Exo_endo_phos, DNaseIc
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a member of the deoxyribonuclease I family. The encoded protein hydrolyzes DNA, is not inhibited by actin, and mediates the breakdown of DNA during apoptosis. Mutations in this gene are a cause of systemic lupus erythematosus-16. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RG205611