

Product datasheet for **RR210284**

Ggt5 (NM_019235) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ggt5 (NM_019235) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ggt5
Synonyms:	Ggta1; Ggtla1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR210284 representing NM_019235
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCATGGGGCCATAGGACCACAGTCTGCCTGGTCTGCTGGGTGTGAGTCTGGGTCTGGCCATCATTG
 TGCTGGCTGTGGTCTTCTCATACCAAGCCTTTGCCGTCCCGATGCCTTCACTCGTGTGCCGTAGC
 TGCTGATTCTAAGATCTGCTCAGATATTGGACGAGTCATCCTCCAGCAGCAGGGCTCACCTGTGGACGCC
 GCCATTGCTGCCCTCATCTGTACCAGGTGTTGTTAACCTCAGAGCATGGGCTGGGCGGAGGGTCTGCT
 TCACCATCTACAATGCATCTACAGGAAGGTGGAGGTCAATGCTCGGAGACAGTGCACGCCAGCCA
 TGACCAGAGACTGCTAGACCAGTGTACAAATGCCCTGCCACTGTGCACAGGGGCCAGTGGATCGGGTT
 CCTGGTGAAGTCCGCGGCTATGCTGAGGCGCACCGCCGATACGGCCGCTGCCTTGGGCTCAGCTTTTCC
 AGCCACCATTGCCCTGCTCCGAGAGGGTTTCCGTGTGCCCTATCCTCAGTCAGTTCTCAACACCAG
 CTTCTGCAGCCCTGCTGAATTCATCAACCTGAGACAGCTCTTCTCAATGGGACAGAAACCTTGAGA
 TCTCAGGACCCACTCCCATGGCCTGCGCTGGCCAAACCTTGGAGACTGTGGCTAAGGAGGTGCAGAGG
 TCTTATACACCGAAAGCTGGGACAAACGCTGGTGAAGACATTGCCTGGCAAGGAAGCCAGCTGACGGT
 TCAGGACTTGGCTGCCTCCGGCCGAAAGTGGTGAACCCCTGGAGATGGCCCTAGGAACTATACCCTG
 TACTCTCCACCGCCGCGGCGAGGGGGCGTATTCTTAGCTTCACTTCAACGTGCTGAAAGGGTTCAACT
 TCTCTGCAGAGACGGTGGCCGGGCTGAAGGAAGGTGAACATGTACCACCCTGTAGAGGCTCTCAA
 GTTCGCAGTAGGGCAGAGGTGGCGGCTATGGGACCCCTACAGCCACCCAGGGATACAGAATCTCCAG
 GACCTTCCGGGAGACTTAGCCAGCACATCCGCCAGCAGATTGATGGCCGTGGTACCACCAGCTCA
 GCCATTACAACCTGTCCGGGTCAGGGCAACAGCATGGGCAGTCTCATGTGTGTGGGAGAAGA
 CGGCAGCGCTGTGGCAGCCACCAGCACCAACACACCCCTTGGAGCGATGGTGTACTCCACAGGACA
 GGCATCTCTCAACAACGAGCTACTAGACTTATGCTGGAGACACAAGCCAGTTCAACGGTACCCTC
 CCCCTGTTCCAGGTGAGCAGCCACCATCATCCATGGTACCCTCCATCTTGATCAACGAAGTCCAGGGGTC
 GAAGCTGGTGATCGGTGGGGCTGGTGGGAGCTTATCATCTCTGCTGTGACCCAGGCTATCGTGAATAAG
 CTGTGGCTTGGCTTAGCCTGACAGAGCCATCGCAGCGCCATCCTACATGTGAATAGCAAGGGCCACG
 TGAATATGAGCCCAAGTTAAACCAGGAGTTCGGAAGGGGCTACAGGACCGAGGCCAGGCCAGAGCCA
 GAGCCAGAGCCGGTTTTCTGAATTCGGTCCAGGCTGTGTTTCAGGAAGGGCCCTGTGTCTATGCAGCA
 TCTGACCTGAGGAAGGCTGGAAGGCTTCAGGATAC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210284 representing NM_019235
 Red=Cloning site Green=Tags(s)

MAWGHRTTVCLVLLGVSLGLAIIIVLAVVLP HHQASCRPDAFTRAAVAADSKICSDIGRVLQQGSPVDA
 AIAALICTGVVNPQSMGLGGGVFTIYNASTGKVEVINARETVPASHDQRLLDQCTNALPLCTGAQWIGV
 PGLRGYAEHRRYGRLPWAQLFQPTIALLREGFRVPPILSQFLNTSFLQPLNSSTLRQLFFNGTETLR
 SQDPLPWPALANTLETVAKEGAEVLYTGKLGQTLVEDIAWQGSQTLVQDLAAFRPKVVEPLEMALGNYTL
 YSPPPPAGGAILSFILNVLKGFNFAETVAGPEGKVNMYHHLVEALKFAVGQRWRLWDPYSHPIQNISQ
 DLLRETLAQHIRQQIDGRGDHQLSHYNLSGVRGNSMGTSHVSVLGEDGSAVAATSTINTPFAMVYSPRT
 GILLNNELLDLWRHKPGSTVTPPPVPGEQPPSSMVPSILINEVQGSKL VIGGAGGELIISAVTQAIVVK
 LWLGFSLTDAIAAPILHVNSKGHVEYEPKFNQEVKGLQDRGQSQSQRVFLNSVQAVFQEGPCVYAA
 SDLRKAGKASGY

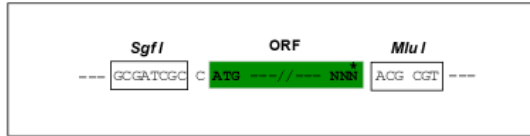
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

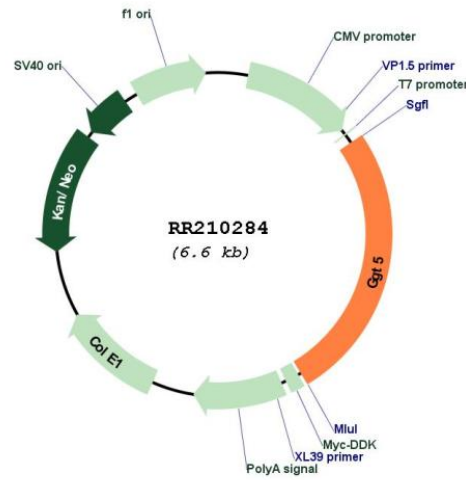
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_019235
 ORF Size: 1716 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_019235.2 , NP_062108.2
RefSeq Size:	2636 bp
RefSeq ORF:	1719 bp
Locus ID:	29566
UniProt ID:	Q5PQV0
Cytogenetics:	20p12
MW:	61.6 kDa
Gene Summary:	involved in protecting the lungs from stress due to oxidation or other types of toxics [RGD, Feb 2006]