

Product datasheet for **RR202231**

Gtf2h1 (NM_001108485) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf2h1 (NM_001108485) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gtf2h1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR202231 representing NM_001108485
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAACTTCATCAGAAGAAGTATTGCTGATTGTGAAGAAGGTTTCGTCAGAAGAAGCAGGATGGAGCAC
 TATACCTCATGGCAGAAAAGAAATTGCTTGGGCACCTGAAGGCAAAGACAGATTTACAATCAGCCATATGTA
 TGCAGATATTAATGCCAGAAAATAAGTCCAGAAGGAAAAGCTAAGATACAACCTCAGCTGGTCCTGCAT
 GCAGGGGACACAACAACTTCCATTTTTCCAACGAAAGCACAGCCGTGAAAGAGCGGGATGCAGTGAAGG
 ACCTCCTTCAGCAGCTGCTGCCAAGTTCAAGCGGAAAGCCAACAAGAAGTGGAGGAGAAGAACAAGT
 GCTCCAAGAAGATCCTGTTTTATTCCAGCTCTATAAAGACCTTGTGTGAGCCAAGTATCAGTGTGAG
 GAGTTCTGGGCCAACCGTTTAAATGTGAATGCAACAGAGAGCTCTACATCCAGTCACAAGCAGGATGTTG
 GCATTTCTGCAGCATTCTGGCTGATGTCGCTCCTCAAACAGATGGCTGTAAATGGTCTGAGATATAATTT
 AACTTCTGATATCATTGAATCTATATTTAGGACCTATCCAGCAGTAAAAATGAAATATGCAGAACTGTA
 CCACATAACATGACAGAAAAGGAGTTCTGGACACGATTTTTCCAGTCCCATTATTTTACAGGGACCGAC
 TAAATACAGGATCAAAGGACCTCTTTCAGAAATGTGCCAAAATAGATGAAAAGGGATAAAAACAATGGT
 TTCATTAGGAGTAAAAACCAATGCTAGATTTGACAGCGTTGGAAGATAAACATTAGACGAGGGCTAT
 GGCATTTCTCCGTGCCATCTACTTCCAATCCAATCCAATAAAGGAGAAATAGTAATGCTGCCATCATCA
 AAAGGTTAAACCACACAGTGCATGGTCTGGCTGCTGGTCTCAGAAAACAACAAGCACAAAATGGACA
 GAATGGTGAGCCAGCAGCGTGGATGGAATTCGGAGATACAGACTGCTTTCAGCCAGCAGTCAAGAGG
 GCAAAGTTACAGGAATCCATTGAATATGAAGACTTGGGAAACAACAATTCGTGAAAACGATTGCACTGA
 ATCTCAAGAAGTCAGACAGGTATTATCATGGTCTACTCCAATTCAGTCACTACAGTATGCAACAAGTCA
 GGACATTATTAATTCCTTTCAAAGTATTAGACAAGAAATGGAAGCTTATACACCCAAGTTAACTCAGGTT
 CTCTCAAGCAGCGCTGCTAGTAGCACCATCACAGCCCTGTACCTGGAGGAGCACTTATGCAGGGAGGGA
 CACAGCAAGCAGTAAACCAGATGGTGCCAAACGATATTCAGTCTGAATTGAAACACTTGTATGTGGCTGT
 TGGGGAGCTTCTGCGCATTTCTGGTCTTCTTCTGTTAATACACCATTCTAGAAGAAAAGCTGGTG
 ACTCACATAGAGGAGATGCTACAGACGGCTACAACAAGCTGCACTCGTGGCAATCCCGGCCTGATGA
 AGAAGACG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR202231 representing NM_001108485
 Red=Cloning site Green=Tags(s)

MATSSSEVLLIVKKVRQKKQDGLYLMAERIAWAPEGKDRFTISHMYADIKCQKISPEGKAKIQLQLVLH
 AGDITNFHFSNESTAVKERDAVKDLLQQLLPKFKRKANKLEEKNRMLQEDPVLFLQYKDLVVSQVISAE
 EFWANRLNVNATESSTSSHKQDVGISAFLADVRPQTDGCNGLRYNLTSDIIESIFRTYPAVKMKAETV
 PHNMTEKEFWTRFFQSHYFHRDLNTGSKDLFAECAKIDEKGLKTMVSLGVKNPMLDLTALEDKPLDEGY
 GISSVPSTNSKSIKENSNAI IKRFNHHSAMVLAAGLRKQQAQNGQNGEPSSVDGNSGDTDCFQPAVKR
 AKLQESIEYEDLGNNSVKTIALLKSDRYHGPPTPIQSLQYATSQDIINSFQIRQEMEAYTPKLTQV
 LSSSAASSTITALSPGGALMQGGTQAVNQMPNDIQSELKHLVAVGELLRHFWSFCFPVNTPFLEEKLV
 THIEEMLQTAYNKLHSWQSRRLMKKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

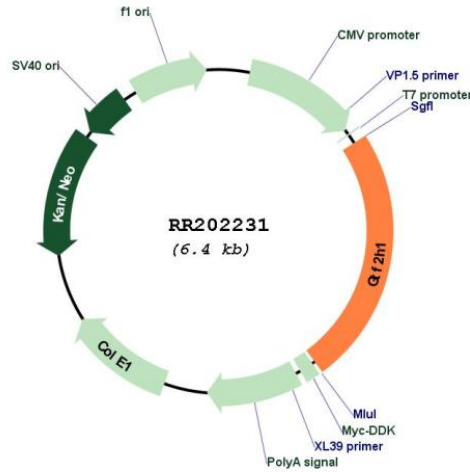
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001108485
ORF Size:	1548 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_001108485.1](#), [NP_001101955.1](#)

RefSeq Size: 2632 bp

RefSeq ORF: 1551 bp

Locus ID: 361580

Cytogenetics: 1q22

MW: 58.1 kDa