

Product datasheet for **RR215066**

Ugt1a1 (NM_012683) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ugt1a1 (NM_012683) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ugt1a1
Synonyms:	Udpgt; UDPGT 1-1; Ugt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR215066 representing NM_012683
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCGTGGTGTGCCGAGCTCATGTTGCTTCTGCTTCTCCGTGCCTTCTGCTGTGTGTGTTGGGTC
 CCTCTGCGTCCCATGCTGGGAAGCTGTTAGTGATCCCCATAGATGGCAGCCACTGGCTGAGTATGCTCGG
 AGTTATTCAGCAGCTCCAGCAAAAAGGGGACGAAGTGGTGGTCATAGCACCTGAAGCTTCGATACACATA
 AAAGAAGGATCATTTTACACTATGAGGAAGTACCCTGTGCCATTCAAAAATGAAAACGTGACAGCTGCTT
 TTGTGGAAGTGGGCGGAGTGTCTTTGATCAAGATCCTTTTCTGCTGCGTGTGGTAAAACATACAACAA
 AGTCAAAAGGGACTCCAGTATGCTGTCTGGCTGCTCCACCTTCTGCACAATGCCGAGTTTATGGCC
 TCTCTGGAACAAAGCCACTTTGATGCTCTGCTGACAGACCCTTCCCTCCGTGTGGCTCCATTGTGGCC
 AGTACCTGTCTCTGCCTGTGTACTTCTTGAATGCATTGCCATGCAGCCTGGATTTGGAAGCCACCCA
 ATGCCCTGCTCCGTTGTCTACGTGCCAAGAGTTTGTCTCGAACACAGATCGCATGAACCTCCTGCAG
 CGGGTGAAGAACATGATTATTGCTTTGACAGAGAACTTCTATGCAGAGTGGTTTACTCCCCCTATGGGT
 CACTTGCCACTGAAATCTTACAGAAAGAGGTGACTGTCAAGGACCTTCTGAGTCCTGCATCTATCTGGCT
 GATGAGAAACGACTTTGTGAAAGATTACCCAGGCCCATCATGCCAACATGGTTTTTATTGGTGGGATA
 AACTGCCTTCAGAAAAAGCCCTATCCCAGGAATTTGAAGCCTATGTCAACGCCTCCGGAGAACATGGCA
 TCGTGGTTTTCTTTGGGATCCATGGTCTCAGAGATTCAGAGAAGAAAGCGATGGAAATTGCTGAGGC
 TTTGGGCAGAATCCTCAGACGGTCTGTGGCGCTACCCGGAAGTACACCTCGAACCTTGCAAGAAC
 ACTATCTTGTCAAATGGCTACCCAAAACGATCTGCTTGGTTCATCAAAGGCTCGGGCGTTCATCACAC
 ACTCCGTTCCCATGGTATTTATGAAGGAATATGCAATGGGTTCCAATGGTGATGATGCCCTTGTGGT
 TGATCAGATGGACAACGCCAAGCGCATGGAACATCGGGGAGCTGGGGTGACCCTGAATGTCTGGAAATG
 ACTGCCGATGATTTGAAAACGCCCTTAAAACGTGTCATCAATAACAAGAGTTACAAGGAGAACATCATGC
 GCCTCTCCAGCCTTACAAGGACCGTCTATCGAGCCTCTGGACCTGGCTGTGTTCTGGGTGGAGTACGT
 GATGAGGCACAAGGGGGCCACACCTGCGCCCGCCGCCACGACCTCACCTGGTACCAGTACCCTCC
 TTGGACGTGATTGGCTTCTCCTGGCCATCGTGTGACGGTGGTCTTATTGTCTATAAAAAGTTGTGCT
 ATGGCTGCCGAAATGCTTTGGGGAAAGGTCGAGTGAAGAAATCACACAAATCCAAGACCCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR215066 representing NM_012683
 Red=Cloning site Green=Tags(s)

MSVVCRSSCSLLLLPCLLLCVLGPSASHAGKLLVIPIDGSHWLSMLGVIQQLQKKGHEVVVIAPEASIIH
 KEGSFYMRKYPVPFQENNVTAAFVELGRSVFDQDPFLLRVVKTYNKVKRDSSMLLSGCSHLLHNAEFMA
 SLEQSHFDALLTDPFLPCGSIVAQYLSLPVYFLNALPCSLDLEATQCPAPLSYVPKSLSSNTDRMFLQ
 RVKNMIIALTENFLCRVVYSPYGLATEILQKEVTVDLLSPASIWLMRNDVVKDYPRPIMPNMVFIGGI
 NCLQKKALSQEFAYVNASGEHGI VVFLSGSMVSEIPEKKAMEIAEALGRIPQTVLWRYTGRPSNLAKN
 TILVKWLPQNDLLGHPKARAFITHSGSHGIYEGICNGVPMVMMPPLFGDQMDNAKRMETRGAGVTLNVLEM
 TADDLENALKTVINNKSYPENIMRLSSLHKDRPIEPLDLAVFWVEYVMRHKGAPHLRPAAHDLTWYQYHS
 LDVIGFLLAIVLTVVFIYKSCAYGCRKCFGGKGRVKKSHKSKTH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_012683

ORF Size: 1605 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_012683.2](#), [NP_036815.1](#)

RefSeq Size: 2259 bp

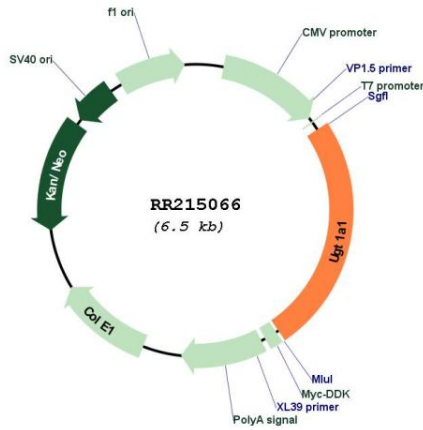
RefSeq ORF: 1608 bp

Locus ID: 24861

UniProt ID: [Q64550](#)

Cytogenetics: 9q35
MW: 59.7 kDa
Gene Summary: catalyzes the glucuronidation of bilirubin; plays a role in bilirubin conjugation and excretion [RGD, Feb 2006]

Product images:



Circular map for RR215066