

## Product datasheet for **RR208827**

### Ugt2a1 (NM\_022228) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ugt2a1 (NM_022228) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ugt2a1
Synonyms:	Ugt2a1p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR208827 representing NM\_022228  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTGAAGAACATTCTACTGTGGTCTCTTCAGCTAAGTCTCCTAGGAATGAGTCTTGGCGGAATGTTCT  
 TCATCTGGCCAATGGAAGGCAGTCACTGGCTAAATGTTAAGATCATAATAGACGAACTCCTAAGGAAAGA  
 GCATAACGTGACTGTCTTGTTCATCCGGGGCCCTTTTCATCACACCGTCGGTCAGCCCATCTCTGACA  
 TTCGAAATATATCCAGTGCCCTTCGCAAGGAAAAATCGAAAGCGTGATCAAGGACTTTGTTTTGACGT  
 GGCTGGAAAACAGGCCGTCTCTTCAACTATCTGGACTTTCTATAAGGAAATGGCCAAAGTCATCGAGGA  
 GTTCCACTTGGTGTCCAGAGGGATCTGTGATGGCGTTCTTAAGAATGAAAAGCTGATGACCAAGCTGCAG  
 AGAGGAAAGTTTGAAGTACTGTTGTCAGACCCAGTATTTCCGTGTGGCGATATCGTAGCTTTAAACTGG  
 GGATTCCATTTATCTATTCCTTGGGTTTTCTCCTGCCTCCACAGTGGAAAAGCACTGTGAAAAAGTCCC  
 GTTTCCTCCTTCTATGTTCTGCAATCTGTGCAGAACTCACAGACCAGATGTCCTTCGCTGACCGAGTA  
 AGGAACTTTATCTCTACCGAATGCAGGACTACATGTTTGAAACTCTTTGGAAGCAATGGGATTCCTATT  
 ACAGTAAAGCCTTAGGAAGACCCACCACACTGTGCGAGACTATGGGGAAAGCTGAGATTTGGCTAATGCG  
 AACATATTGGGATTTTGAATTCCTCGTCCATATTTGCCTAATTTGAGTTTGTGGGAGGACTGCACTGC  
 AAACCTGCCAAGCCTTTGCCTAAGGAAATGGAAGAGTTTGTCCAGACCTCAGGGGAACATGGTGTGTGG  
 TGTTCCTTTGGGGTCAATGGTCAAAAACCTGACAGAAGAAAAGGCCAATCTCATTGCCTCAGCCCTTGC  
 CCAGATTCCTCAGAAGTTTTGTGGCGATACAAAGGAAAGATACCAGCCACATTAGGATCCAATACGAGA  
 TTGTTTGACTGGATTCTCAGAATGATCTTCTTGGACATCCAAAACCAGAGCTTTTATCACCCATGGTG  
 GAACAAATGGAATCTATGAGGCCATTTACCACGGGATCCCGATGGTGGGAGTTCCCATGTTTCGCTGATCA  
 GCCTGACAACATAGCTCACATGAAGGCTAAAGGAGCAGCTGTGGAGGTGAACATGAACACGATGACGAGT  
 GCAGATCTGCTCAGTGTGTGAGAGCAGTCATCAATGAGCCATTTTATAAAGAGAATGCCATGAGACTAT  
 CAAGAATTACCACGATCAGCCAGTGAAGCCCCTGGACAGAGCCGTCTTCTGGATTGAGTTTGTCTATGCG  
 TCACAAAGGAGCCAAGCACCTTCGTGTGGCAGCGCATGACCTCAGCTGGTTTCAGTACCCTCTCTAGAT  
 GTGATTGGGTTCTGCTGGCTTGTATGGCATCTGCCATATTATTGGTTATAAAATGTTGTTTATTGTAT  
 TTCAAAAATTGGTAAGACANGAAAGAAGAATAAAAGGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR208827 representing NM\_022228  
 Red=Cloning site Green=Tags(s)

MLKNILLWSLQLSLLGMSLGGNVLWPMEGSHWLNVKIIDEILLRKEHNVTVLVAGSALFITPSVSPSLT  
 FEIYPVFPFGEKIESVIKDFVLTWLENRPSSTIWTIFYKEMAKVIEEFHLVSRGICDGVLKNEKLMTKLQ  
 RGKFEVLLSDPVFPCGDI VALKLGIPFIYSLRFSPASTVEKHCGKVPFPPSYVPAILSELTDQMSFADRV  
 RNFISYRMQDYMFETLWKQWDSYYSKALGRPTTLCETMGKAEIWL MRTYWDFFPRPYLPNFEFVGLLHC  
 KPAKPLPKEMEEFVQTSGEHGVVVFSLGSMVKNL TEEKANLIASALAQIPQKVLWRYKGIKIPATLGSNTR  
 LFDWIPQNDLLGHPKTRAFITHGGTNGIYEAIYHGIPMVGVPMFADQPDNIAHMKAKGAAVEVNMNTMTS  
 ADLLSAVRAVINEPFYKENAMRLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAHDL SWFQYHSLD  
 VIGFLLACMASAILLVKCLFVFKIGKTXKKNKRD

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_022228

**ORF Size:** 1581 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\\_022228.1](#), [NP\\_071564.1](#)

**RefSeq Size:** 1584 bp

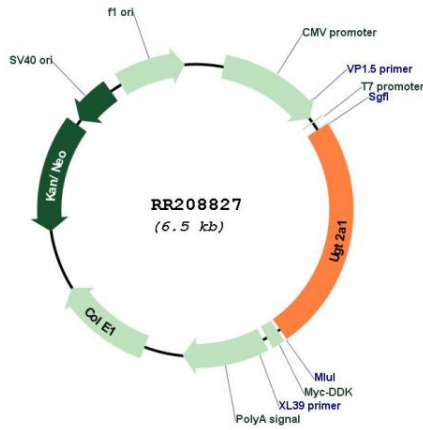
**RefSeq ORF:** 1584 bp

**Locus ID:** 63867

**UniProt ID:** [P36510](#)

**Cytogenetics:** 14p21  
**MW:** 59.9 kDa  
**Gene Summary:** enzyme important for the elimination of potentially toxic compounds; found in the olfactory epithelium and may be involved with olfaction [RGD, Feb 2006]

**Product images:**



Circular map for RR208827