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Product datasheet for RG228565

UROC1 (NM_001165974) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UROC1 (NM_001165974) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UROC1
Synonyms:	HMFN0320; UROCD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG228565 representing NM_001165974
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTAGCCTCCAGGCGCTGTGCTCTGGCCTGCCCCTGCGGCCCCTCCCAGAGAACCGGGGACGCCAGG
CTGGGGTGCCCCATGCCCCTGTCAGGACCCCCAGCCTCAGCCCTGTGGAGAAACAGCTGGCGCTGAGGAA
CGCCCTGCGCTACTTCCCCCCGGATGTCCAGGAGCTGCTGGCCCCAGAGTTTGCCCAGGAGCTGCAACTG
TACGGACACATCTACATGTACCGGTTTTGCCCCGACATTGAAATGAGGGCCTACCCGATTGAGCAGTACC
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TGCTACATCGGTCCCCAGGGAATCGTTCATGGCACTGTGCTCACCGTGTTGAATGCTGCACGTCGGTACC
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GAGAGCCAGGCTGATGCTCAGCTGGGATGTCTCCAATGGTGTGGCCCGGCGCTGCTGGTCAGGGAACCAG
AAGGCCTATGAGATCATCTGCCAGACCATGCAGGAGAACAGCACCTTGGTGGTGACACTGCCTCACAAGG
TGGAGGACGAGCGGGTGCTCCAGCAGGCCCTGCAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228565 representing NM_001165974
Red=Cloning site Green=Tags(s)

MSSLQALCSGLPLRPLPENRGRQAGVPHAPVRTPSLSPVEKQLALRNALRYFPPDVQELLAPEFAQELQL
YGHIYMYRFCPDIEMRAYPIEQYPCQTKVAAAIMHMIMNNLDPAVAQFPQELVTYGGNGQVFSNWAQFWL
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CYIGPQGIVHGTVLTVLNAARRYLGIEDLAGKVFVTSGLGGMSGAQAKAAVIVGCIGVIAEVDKAALEKR
HRQGWLMEVTDSLDRCIQRLRVLQLGLQQALGWAGLPAALGLCVLSCFVNLAPLGEGRCLAPSGFSRPLL
GAPVLLLCPSREARKKKEVLSLGYHGNVVALWERLVHELDTTGECLVDLGSDQTSCHNPFNGGYYPVQLS
FTEAQSLMASNPAVFKDLVQESLRRQVSAINRLAEEKFFFWDYGNAFLLEAQRAGADVEKKGAGRTEFRY
PSYVQHIMGDIFSQGFGPFRWVCTSGDPQDLAVTDELATSVLEEAIADGVKVSVKLQYMDNIRWIREAAR
HRLVVGSQARILYSDQKGRVAIAVAINQAIACRRIKAPVVLSRDHHDVSGTDSPFRETSNIYDGSAFCAD
MAVQNFVGDACRGATWVALHNGGGVGWGEVINGGFGLVLDGTPEAEGRARLMLSWDVSNGVARRCWSGNQ
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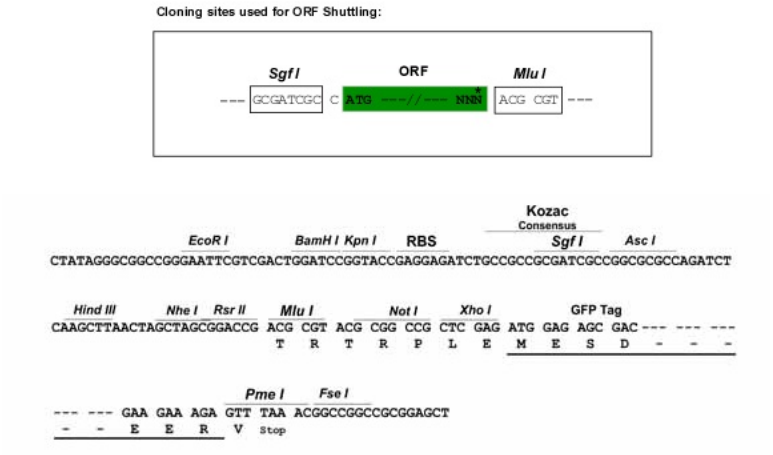
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001165974

ORF Size: 2208 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_001165974.2

RefSeq Size: 3460 bp

RefSeq ORF: 2211 bp

Locus ID: 131669

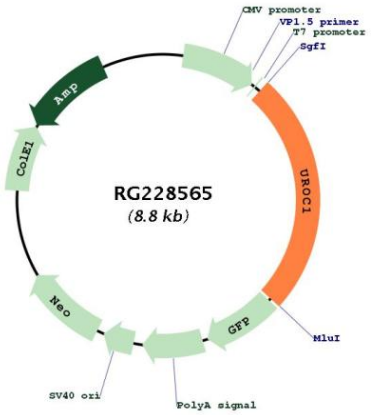
UniProt ID: Q96N76

Cytogenetics: 3q21.3

Protein Pathways: Histidine metabolism, Metabolic pathways

Gene Summary: This gene encodes an enzyme involved in the second step of histidine catabolism, metabolizing urocanic acid to formiminoglutamic acid. Deficiency of this enzyme results in urocanic aciduria, and is an apparent cause of mental retardation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2021]

Product images:



Circular map for RG228565