

Product datasheet for **RG235225**

UTY (NM_001258257) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UTY (NM_001258257) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UTY
Synonyms:	KDM6AL; KDM6C; UTY1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG235225 representing NM_001258257 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAATCCTGCGCAGTGTGCTCACTACCGCCGCTGTTGCCTTCGGTGATGAGGCAAAGAAAATGGCGG
AAGGAAAAGCGAGCCGCGAGAGTGAAGAGGAGTCTGTTAGCCTGACAGTCGAGGAAAGGGAGCGCTTGG
TGGCATGGACAGCCGCTCTTCGGGTTCTGAGGCTTCATGAAGATGGCGCCAGAACGAAGACCCTACTA
GGCAAGGCTGTTGCTGCTACGAATCTTAATCTTAAAAGCTGAAGGAAAAGTGGAGTCTGACTTCTTTT
GCCAATTAGGTCACCTTCAACCTTGTGGGAAGATTATCAAAGCATTATCTGCATATCAGAGATTA
CAGTTTACAGGCTGACTACTGGAAGAATGCTGCGTTTTATATGGCCTTGGTTTGGTCTACTTCTACTAC
AATGCATTTTCATTGGCAATTAAGCATTCAAGATGTCCTTTATGTTGACCCAGCTTTTGTGCGAGCCA
AGGAAATTCATTTACGACTTGGGCTCATGTTCAAAGTGAACACAGACTACAAGTCTAGTTTAAAGCATT
TCAGTTAGCCTTGATTGACTGTAATCCATGTACTTTGTCCAATGCTGAAATTCATTTTCATATTGCCAT
TTGTATGAAACCCAGAGGAAGTATCATTCTGCAAAGGAGGCATATGAACAACCTTTGCGAGACAGAAAACC
TTCTGCAACAAGTAAAAGCAACTGTATTGCAACAGTTAGGTTGGATGCATCATAATAGGATCTAGTAGG
AGACAAAGCCACAAAGGAAAGCTATGCTATTCAGTATCTCCAAAAGTCTTTGGAGGCAGATCCTAATTCT
GGCCAATCGTGGTATTTTCTTGGAAAGTGTATTCAAGTATTGGGAAAGTTCAGGATGCCTTTATATCTT
ACAGGCAATCTATTGATAAATCAGAAGCAAGTGCAGATACATGGTGTCAATAGGTGTGTATCAGCA
GCAAAATCAGCCTATGGATGCTTTACAGGCATATATTTGTGCTGTACAATTGGACCATGGGCATGCCGCA
GCCTGGATGGACCTAGGTAATCTCTATGAATCCTGCAATCAACCTCAAGATGCCATTAATGCTACCTAA
ATGCAGCTAGAAGCAAACGTTGTAGTAATACCTTACGCTTGTGCAAGAATTAATTTCTACAGAAATGG
TTCTGATAACTGGAATGGTGGCCAGAGTCTTTCACATCATCCAGTACAGCAAGTTTATTCGTTGTGTTT
ACACCACAGAAATACAGCACTTGAACAACCTGCGAGCAAATAGAGATAATTTAAATCCAGCACAGAAGC
ATCAGCTGGAACAGTTAGAAAGTCAAGTTGTCTTAATGCAGCAAATGAGACACAAAGAAGTTGCTCAGGG
GCTTCATAAAAGTCAGAGTTCATGTTTGTGAGGACCTAATGAAGAACAACCTCTGTTTCCACTGGGTCA



[View online »](#)

GCCCAGTATCACCAGGCAACTAGCACTGGTATTAAGAAGGCGAATGAACATCTCACTCTGCCTAGTAATT
CAGTACCACAGGGGGATGCTGACAGTCACTCTCCTGTCACTACTGCTACCTCAGGTGGACAACAAGGCAT
TATGTTTACCAAAGAGAGCAAGCCTTCAAAAAATAGATCCTTGGTGCCTGAAACAAGCAGGCATACTGGA
GACACATCTAATGGCTGTGCTGATGTCAAGGGACTTTCTAATCATGTTTCATCAGTTGATAGCAGATGCTG
TTTCCAGTCTAACCATGGAGATTCACCAAAATTTATTAATTGCAGACAATCCTCAGCTCTCTGCTTTGTT
GATTGGAAAAGCCAATGGCAATGTGGTACTGGAACCTGTGACAAAGTGAATAATATTCACCCAGCTGTT
CATACAAAGACTGATCATTCTGTTGCCTTTACCCCTCTTCAGCCATTTCCACAGCAACACCTTCTCCTA
AATCCACTGAGCAGAGAAGCATAAACAGTGTTACCAGCCTTAACAGTCCTCACAGTGGATTACACACAGT
CAATGGAGAGGGGCTGGGGAAGTCACAGAGCTCTACAAAAGTAGACCTGCCTTTAGCTAGCCACAGATCT
ACTTCTCAGATCTTACCATCAATGTGCTGCTATATGCCCCAGTTCAACAGAAGTTCTGAAAGCATGCA
GGAATCCAGGTAAAAATGGCTTGTCTAATAGCTGCATTTTGTAGATAAATGTCCACCTCCAAGACCACC
AACTTCACCATACCCACCCTTGCCAAAGGACAAGTTGAATCCACCCACACCTAGTATTTACTTGGAAAAAT
AAACGTGATGCTTTCTTCTCCATTACATCAATTTTGTACAAAATCCAAAAACCCTGTTACAGTAATAC
GTGGCCTTGTGGAGCTCTTAAATTAGATCTTGGACTTTTCTCTACCAAAAACCTTTGGTAGAAGCTAACAA
TGAACATATGGTAGAAGTGAAGACAGTTGCTGCAACCAGCAGATGAAAACCTGGGATCCCCTGGAACA
AAGAAAATCTGGCGTTGTGAAAGCAATAGATCTCATACTACAATTGCCAAATACGCACAATACCAGGCTT
CCTCCTCCAGGAATCATTGAGAGAAGAAAATGAGAAAAGAACAACACAAAAGATCATTAGATAACGA
ATCCACATCTTACAGAAATTCTGGAAGGAGAAGGAAAGGACCTTTTAAAACCATAAAAATTTGGGACCAAC
ATTGACCTCTCTGATAACAAAAAGTGGAAAGTGCAGTTACATGAACTGACTAAACTTCTGCTTTTGGCG
GTGTGGTGTGACGAGGAAATCTTCAACCCATGTTGGGCATACCATTCTGGGCATGAATACAGTACAAC
GTATATGAAAGTCCAGGGAGTCGGACACCAGGTACCAAGAAAATAACAACCTTCTGCTCTGTTAACATA
AATATTGGTCCAGGAGATTGGAATGGTTTGTGTACCTGAAGATTATTGGGGTGTCTGAATGACTTCT
GTGAAAAAATAATTTGAATTTTTAATGAGTTCTTGGTGGCCCAACCTTGAAGATCTTTATGAAGCAAA
TGTCCTGTGTATAGATTTATTCAGCGACCTGGAGATTTGGTCTGGATAAATGCAGGCACTGTGCATTGG
GTTCAAGCTGTTGGCTGGTGCAATAACATTGCCTGGAATGTTGGTCCACTTACAGCCTGCCAGTATAAAT
TGGCAGTGAACGGTATGAATGGAACAAATGAAAAGTGTGAAGTACCAGTACCCATGGTGCATCTTTC
CTGGAATATGGCACGAAATATCAAAGTCTCAGATCCAAAGCTTTTTGAAATGATTAAGTATTGTCTTTTG
AAAATTCTGAAGCAATATCAGACATTGAGAGAAGCTCTTGTGACGAGGAAAAGAGTTATATGGCATG
GGCGGACAAATGATGAACCAGCTCATTACTGTAGCATTGTGAGGTGGAGGTTTTAATCTGCTTTTGT
CACTAATGAAAGCAATACTCAAAAAACCTACATAGTACATTGCCATGATTGTGCAGGAAAAACAAGCAAA
AGTTTGGAAAATTTTGTGGTGTGCGAACAGTACAAAATGGAGGACCTAATCCAAGTTTATGATCAATTTA
CACTAGCTCTTTCATTATCATCCTCATCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG235225 representing NM_001258257
 Red=Cloning site Green=Tags(s)

MKSCAVSLTTAAVAFGDEAKKMAEGKASRESEEEVSLSL TVEEREALGGMSRSLFGFVRLHEDGARTKLL
 GKAVRCYESLILKAEGKVESDFCQLGHFNLLLEDYSKALSAYQRYSSLQADYWKNAFLYGLGLVYFY
 NAFHWAIAKAFQDVLVDPSPFCRAKEIHLRLGLMFKVNTDYKSSLKHFQLALIDCNPCTLSNAEIQFHIAH
 LYETQRKYHSAKEAYEQLLQTEENLPAQVKATVLQQLGWMHHNMDLVGDKATKESYAIQYLQKSLEADPNS
 GQSWYFLGRCYSSIGKVQDAFISYRQSIDKSEASADTWCSIGVLVYQQNQPMQDALQAYICAVQLDHGHAA
 AWMDLGLTYESCNPQDAIKCYLNAARSKRCSNTSTLAARIKFLQNGSDNWGGQSLSHHPVQVYVSLCL
 TPQKLQHLQQLRANRDNLNPAQKHQLEQLESQFVLMQQMRHKEVAQGLHKSQSSCLSGPNEEQPLFSTGS
 AQYHQATSTGIKKANEHLTLPSNSVPQGDADSHLSCHTATSGGQQGIMFTKESKPSKNRSLVPETSRTG
 DTSNGCADVKGLSNHVHQLIADAVSSPNHGDSPNLLIADNPQLSALLIGKANGVGTGTCDKVNNIHPAV
 HTKTDHVSASSPSAISTATPSPKSTEQRINSVTSLSNPHSGLHTVNGEGLGKSQSSTKVDLPLASHRS
 TSQILPSMSVSIKPSSTEVLKACRNPGKNGLSNSCILLDKPPRPPTSPYPPLPKDKLNPTPSIYLEN
 KRDAFFPPLHQFCTNPKNPVTVIRGLAGALKLDLGLFSTKTLVEANNEHMEVVRTQLLQPADENWDPTGT
 KKIWRCESNRSHTTIAKYAQYQASSFQESLRENEKRTQHKDHSNESTSSSENSGRRRKGPFKTIKFGTN
 IDLSDNKWKQLQLHELTKLPAFARVVSAGNLLTHVGHTILGMNTVQLYMKVPGSRTPGHQENNFCSVNI
 NIGPGDCEWFVVPEDYWVGLNDFCEKNNLNFMSWPNLEDLYEANVPVYRFIQRPGLVWINAGTVHW
 VQAVGWCNNAIWNVGPLTACQYKLAVERYEWNKLSVKSPVPMVHLSWNMARNIKVSDPKLFEMIKYCLL
 KILKQYQTLREALVAAGKEVIWHGRTNDEPAHYCSICEVEFNLLFVTNESNTQKTYIVHCHDCARKTSK
 SLENFVLEQYKMEDLIQYVDQFTLALSLSSSS

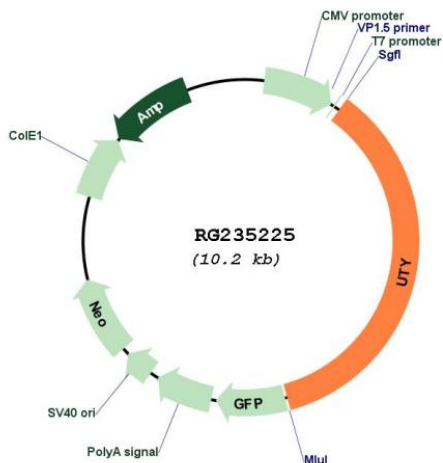
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001258257

ORF Size: 3669 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_001258257.1](#), [NP_001245186.1](#)

RefSeq Size: 6154 bp

RefSeq ORF: 3672 bp

Locus ID: 7404

Cytogenetics: Yq11.221

Protein Families: Transmembrane

Gene Summary:

This gene encodes a protein containing tetratricopeptide repeats which are thought to be involved in protein-protein interactions. The encoded protein is also a minor histocompatibility antigen which may induce graft rejection of male stem cell grafts. A large number of alternatively spliced transcripts have been observed for this gene, but the full length nature of some of these variants has not been determined. [provided by RefSeq, Apr 2012]