

Product datasheet for RC213521

UTY (NM_007125) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UTY (NM_007125) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: UTY
Synonyms: KDM6AL; KDM6C; UTY1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC213521 representing NM_007125
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAATCCTGCGCAGTGTGCTCACTACCGCCGCTGTTGCCTTCGGTGATGAGGCAAAGAAAATGGCGG
AAGGAAAAGCGAGCCGCGAGAGTGAAGAGGAGTCTGTTAGCCTGACAGTCGAGGAAAGGGAGCGCTTGG
TGGCATGGACAGCCGTCTCTTCGGGTTCTGAGGCTTCATGAAGATGGCGCCAGAACGAAGACCCTACTA
GGCAAGGCTGTTGCTGCTACGAATCTTTAATCTTAAAAGCTGAAGGAAAAGTGGAGTCTGACTTCTTTT
GCCAATTAGGTCACTTCAACCTCTTGTGGAAAGATTATCAAAGCATTATCTGCATATCAGAGATTA
CAGTTTACAGGCTGACTACTGGAAGAATGCTGCGTTTTATATGGCCTTGGTTTGGTCTACTTCTACTAC
AATGCATTTCAATGGGCAATTAAGCATTTCAAGATGCCTTTATGTTGACCCGAGCTTTTGTGCGAGCCA
AGGAAATTCATTTACGACTTGGGCTCATGTTCAAAGTGAACACAGACTACAAGCTAGTTTAAAGCATTT
TCAGTTAGCCTTGATTGACTGTAATCCATGTACTTTGCAATGCTGAAATTCATTTTCATATTGCCAT
TTGTATGAAACCCAGAGGAAGTATCATTCTCAAAGGAGGCATATGAACAACCTTTTGCAGACAGAAAACC
TTCTGCACAAGTAAAAGCAACTGTATTGCAACAGTTAGTTGGATGCATCATAATATGGATCAGTAGG
AGACAAAAGCCACAAAGGAAGCTATGCTATTCAGTATCTCCAAAAGCTTTTGGAGGCAGATCCTAATTCT
GGCCAATCGTGGTATTTTCTTGGAAAGTGTATTCAAGTATTGGGAAAAGTTCAGGATGCCTTTATATCTT
ACAGGCAATCTATTGATAAATCAGAAGCAAGTGCAGATACATGGTGTTCATAGGTGTGTGTATCAGCA
GCAAAATCAGCCTATGGATGCTTACAGGCATATATTTGTGCTGTACAATTGGACCATGGGCATGCCGCA
GCCTGGATGGACCTAGGTACTCTCTATGAATCCTGCAATCAACCTCAAGATGCCATTAATGCTACCTAA
ATGCAGCTAGAAGCAAACGTTGTAGTAATACCTCTACGCTTGCTGCAAGAATTAATTTCTACAGAAATGG
TTCTGATAACTGGAATGGTGGCCAGAGTCTTTCACATCATCCAGTACAGCAAGTTTATTCGTTGTGTTT
ACACCACAGAAAATCAGCACTTGAACAACCTGCGAGCAAATAGAGATAATTTAAATCCAGCACAGAAGC
ATCAGCTGGAACAGTTAGAAAGTCAGTTTGTCTTAATGCAGCAAATGAGACACAAAGAAGTTGCTCAGGT
ACGAACTACTGGAATTCATAACGGGGCCATAACTGATTCACTGCCTACAAACTCTGTCTCTAATCGA
CAACCACATGGTCTGCTGACCAGAGTATCTAGCGTCTCTCAGCCTGGAGTTCCGCCCTGCTTGTGTTGAAA



[View online »](#)

AACTTTTGTCCAGTGGAGCTTTTTCTGCAGGCTGTATTCCTTGTGGCACATCAAAAATTCTAGGAAGTAC
AGACACTATCTTGCTAGGCAGTAATTGTATAGCAGGAAGTAAAGTAATGGAAATGTGCCTTACCTGCAG
CAAAATACACACACTCTACCTCATAATCATACAGACCTGAACAGCAGCACAGAAGAGCCATGGAGAAAAC
AGCTATCTAACTCCGCTCAGGGGCTTCATAAAGTCAGAGTTCATGTTTGTCCAGGACCTAATGAAGAACA
ACCTCTGTTTTCCACTGGGTGAGCCAGTATCACCAGGCAACTAGCACTGGTATTAAGAAGGCGAATGAA
CATCTCACTCTGCCTAGTAATTCAGTACCACAGGGGATGCTGACAGTCACTCTCCTGTCACTAGTCTA
CCTCAGGTGGACAACAAGGCATTATGTTTACCAAAGAGAGCAAGCCTTCAAAAAATAGATCCTTGGTGCC
TGAAACAAGCAGGCATACTGGAGACACATCTAATGGCTGTGCTGATGTCAAGGGACTTTCTAATCATGTT
CATCAGTTGATAGCAGATGCTGTTTCCAGTCTAACCATGGAGATTACCAAATTTATTAATTGCAGACA
ATCCTCAGCTCTCTGCTTGTGATTGGAAAAGCCAATGGCAATGTGGTACTGGAACCTGTGACAAAGT
GAATAATATTCACCCAGCTGTTCATACAAAGACTGATCATTCTGTTCCTTCCACCCTTTCAGCCATT
TCCACAGCAACACCTTCTCCTAAATCCACTGAGCAGAGAAGCATAAACAGTGTACCAGCCTAACAGTC
CTCACAGTGGATTACACACAGTCAATGGAGAGGGGCTGGGAAGTCACAGAGCTTACAAAAGTAGACCT
GCCTTTAGCTAGCCACAGATCTACTTCTCAGATCTTACCATCAATGTCAGTGTCTATATGCCCCAGTTCA
ACAGAAGTCTGAAAGCATGCAGGAATCCAGGTA AAAATGGCTTGTCTAATAGCTGCATTTTGTAGATA
AATGTCCACCTCCAAGACCACCAACTTACCATACCCACCTTGCCAAAGGACAAGTTGAATCCACCCAC
ACCTAGTATTTACTTGGAAAATAAACGTGATGCTTTCTTCTCCATTACATCAATTTTGTACAAATCCA
AAAAACCTGTTACAGTAATACGTGGCCTTGTGGAGCTTAAATTAGATCTTGGACTTTTCTCTACCA
AACTTTGGTAGAAGCTAACATGAACATATGGTAGAAGTGAGGACACAGTTGCTGCAACCAGCAGATGA
AACTGGGATCCCACTGGAACAAAGAAAATCTGGCGTTGTGAAAGCAATAGATCTCATACTACAATTGCC
AAATACGCACAATACCAGGCTTCTCCTTCCAGGAATCATTGAGAGAAGAAAATGAGAAAAGAACAAC
ACAAAGATCATTAGATAACGAATCCACATCTCAGAGAATTCTGGAAGGAGAAGGAAAGGACCTTTTAA
AACCATAAAAATTTGGGACCAACATTGACCTCTCTGATAACAAAAGTGGAAAGTTGCAGTTACATGAACTG
ACTAAAATCTCCTGCTTTTGGCGCTGTGGTGTGAGCAGGAAATCTTCTAACCCTGTTGGGCATACCATT
TGGGCATGAATACAGTACAACGTATATGAAAGTTCCAGGGAGTCGGACACCAGGTCACCAAGAAAATAA
CAACTTCTGCTCTGTTAACATAAATATTGGTCCAGGAGATTGTGAATGGTTTGTGTACCTGAAGATTAT
TGGGGTGTCTGAATGACTTCTGTGAAAAAATAATTTGAATTTTTTAATGAGTTCTTGGTGGCCCAACC
TTGAAGATCTTTATGAAGCAAATGTCCCTGTGTATAGATTTATTCAGCGACCTGGAGATTGGTCTGGAT
AAATGCAGGCACTGTGCATTGGGTTCAAGCTGTGGCTGGTGAATAACATTGCCTGGAATGTTGGTCCA
CTTACAGCCTGCCAGTATAAATGGCAGTGAACGGTATGAATGGAACAAATTGAAAAGTGTGAAGTCAC
CAGTACCCATGGTGCATCTTCTGGAATATGGCACGAAATATCAAAGTCTCAGATCCAAAGCTTTTGA
AATGATTAAGTATTGCTTTTGAATAATCTGAAGCAATATCAGACATTGAGAGAAGCTCTTGTTCAGCA
GAAAAAGAGGTTATATGGCATGGGCGGACAAATGATGAACCAGCTCATTACTGTAGCATTGTGAGGTGG
AGGTTTTTAATCTGCTTTTTGTCACTAATGAAAGCAATACTCAAAAAACCTACATAGTACATTGCCATGA
TTGTGCACGAAAAACAAGCAAAAGTTTGGAAAATTTTGTGGTGTGCGAACAGTACAAAATGGAGGACCTA
ATCCAAGTTTATGATCAATTTACACTAGCTCTTTCATTATCATCCTCATCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213521 representing NM_007125
 Red=Cloning site Green=Tags(s)

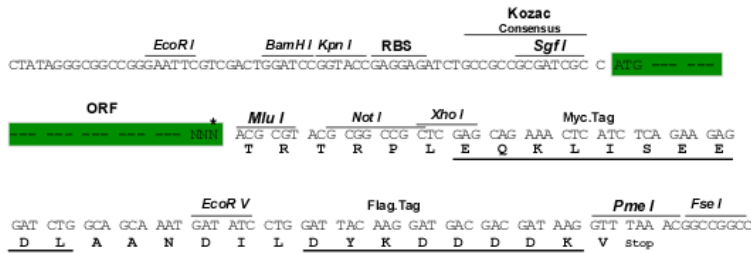
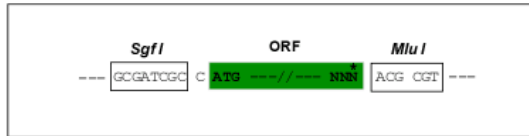
MKSCAVSLTTAAVAFGDEAKKMAEGKASRESEEEVSLSL TVEEREALGGMSRSLFGFVRLHEDGARTKLL
 GKAVRCYESLILKAEGKVESDFCQLGHFNLLLEDYSKALSAYQRYSSLQADYWKNA AFLYGLGLVYFY
 NAFHWAIAKAFQDVLVYDPSFCRAKEIHLRLGLMFKVNTDYKSSLKHFQLALIDCNPCTLSNAEQFHIAH
 LYETQRKYHSAKEAYEQLLQ TENLPAQVKATVLQQLGWMHHNMDLVGDKATKESYAIQYLQKSL EADPNS
 GQSWYFLGRCYSSIGKVQDAFISYRQSIDKSEASADTWC SIGVL YQQNQPM DALQAYICAVQLDHGHAA
 AWM DLGLTYESCNQPQDAIKCYLNAARSKRCSNTSTLAARIKFLQNGSDNWN GGSLSL SHHPVQVYSLCL
 TPQKLQHLEQLRANRDNLNPAQKHQLEQLESQFVLMQQMRHKEVAQVVRTTGIHNGAITDSSLPTNSVSNR
 QPHGALTRVSSVSQPGVRPACVEKLLSSGAFSAGCIPC GTSKILGSDTDILLGSNCIAGSESNGNVPYLQ
 QNTHTLPHNHTDLNSSTEERPWRKQLSNSAQGLHKSQSSCLSGPNEEQPLFSTGSAQYHQATSTGIKKANE
 HLTLPNSNVPQGDADSHLSCHTATSGGQQGIMFTKESKPSKNRSLVPETS RHTGDTSNGCADVKGLSNHV
 HQLIADAVSSPNHGDSPNLLIADNPQLSALLIGKANGNVGTGCDKVNNIHPAVHTKTDHVSASSPSSAI
 STATPSPKSTEQRSINSVTSLNPHSGLHTVNGEGLGKSQSSTKV D LPLASHRSTSQILPMSVSI CPSS
 TEVLKACRNPGKNGLSNSCILLDKCPPRPPTSPYPPLPKDKLNPPTPSIYLENKRD AFFPPLHQFCTNP
 KNPVTVIRGLAGALKLDLGLFSTKTLVEANNEHMVEVRTQLLQPADENWDPTGTKKIWRCESNRSHTTIA
 KYAQYQASSFQESLREENEKRTQHKDSDNESTSENSGRRRKGPFKTIKFGTNIIDLSDNKKWKLQHEL
 TKLPAFARVVSAGNLLTHVGHITILGMNTVQLYMKVPGSRTPGHQENNNFCSVINIIGPGDC EWFVPEDY
 WGVLNDFCEKNNLNLMSW WPNLEDLYE ANVPVYRFIQRPGDLVWINAGTVHVVQAVGWCNNIAWNVP
 LTACQYKLAVERYEWNKLKSVKSPVPMVHL SWNMARNIKVSDPKLFEMIKYCLLKILKQYQTLREALVAA
 GKEVIWHGRTNDEPAHYCSICEVEVFNLLFVTNESNTQKTYIVHCHDCARKTSKSL ENFVLEQYKMEDL
 IQYVDQFTLALSLSSSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

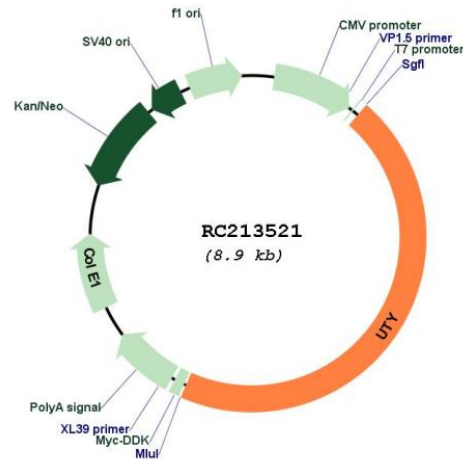
Restriction Sites:
 Cloning Scheme:

SgfI-MluI

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_007125

ORF Size: 4041 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_007125.4](#)

RefSeq Size: 6538 bp

RefSeq ORF: 4044 bp

Locus ID: 7404

UniProt ID: [O14607](#)

Cytogenetics: Yq11.221

Domains: TPR, JmjC

Protein Families: Transmembrane

MW: 149.4 kDa

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]