

Product datasheet for **RG210438**

Protein kinase Y linked (PRKY) (NM_002760) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Protein kinase Y linked (PRKY) (NM_002760) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Protein kinase Y linked
Synonyms:	OTTHUMP00000033227; protein kinase, Y-linked
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210438 representing NM_002760 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCGCCCGGGCCGCCCAGGCGGCCGCGGCGGAGAGCAACTCCCGAGAGGTGACGGAGGATGCCG
CCGACTGGGCGCCCGCGCTCTGCCCCAGCCCCGAGGCGCGGTCCCGGAGGCGCCTGCCTACCGCCTGCA
GGACTGCGACGCGCTGGTCACCATGGGCACTGGGACGTTCCGGCGGGTGCACCTGGTGAAGGAGAAGACA
GCCAAGCATTCTTCGCCCTCAAGGTGATGAGCATTCCCGACGTCATCCGCCGAAGCAGGAGCAGCAGC
TGCAAAATGAGAAGTCTGTCTGAAGGAAGTCAGCCACCCGTTCTCATCAGGCTGTTCTGGACGTGGCA
TGAGGAGCGCTTCTCTACATGCTCATGGAGTATGTGCCGGTGGCGAGCTTTCAGCTACCTGCGCAAC
CGGGGGCACTTCTCCAGCACACGGGGCTTTCTACTCTGCGGAGATCATCTGTGCCATTGAGTACCTGC
ACTCCAAGGAGATCGTCTACAGGGATTTGAAGCCGGAGAACATCTGCTGGATAGGGATGGTCACATCAA
GCTCACGGACTTTGGGTTTGCCAAGAAGCTGGTAGACAGGACTTGGACCCTCTGTGGAACACCCGAGTAC
CTAGCCCCGAAGTATTAGAGCAAGGGCCACGGAAGGGCCGTGGACTGGTGGGCCCTCGGCATCTGA
TATTCGAGATGCTTTCGGGGTTTCTCCATTTTTGATGACAACCCGTTTGGCATTATCAGAAAATTCT
TGCAGGCAAACTATATTTCCCAGACATTTGGATTTCCATGTAAAAACGGGGCGAATGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210438 representing NM_002760
 Red=Cloning site Green=Tags(s)

MEAPGPAQAAAAESNSREVTEDAADWAPALCPSPEARSPEAPAYRLQDCDALVTMGTFGRVHLVKEKT
 AKHFFALKVMSIPDVIRRKQEQHVHNEKSVLKEVSHPFLLIRLFWTWHEERFLYMLMEYVPGGELFSYLRN
 RGHFSSTTGLFYSAEIIICAEIYLHSKEIVYRDLKPENILLDRDGHIKLTDGFAKKLVDRTWLTCGTPEY
 LAPEVIQSKGHGRAVDWWALGILIFEMLSGFPFFDDNPFGIYQKILAGKLYFPRHLDFHVKTGRMM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002760

ORF Size: 831 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_002760.3](#), [NP_002751.1](#)

RefSeq Size: 7216 bp

RefSeq ORF: 833 bp

Locus ID: 5616

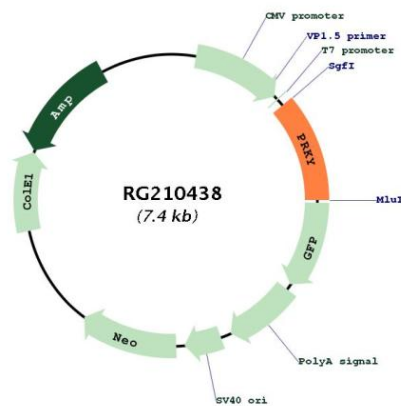
Cytogenetics: Yp11.2

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene is similar to the protein kinase, X-linked gene in the pseudoautosomal region of the X chromosome. The gene is classified as a transcribed pseudogene because it has lost a coding exon that results in all transcripts being candidates for nonsense-mediated decay (NMD) and unlikely to express a protein. Abnormal recombination between this gene and a related gene on chromosome X is a frequent cause of XX males and XY females. [provided by RefSeq, Jul 2010]

Product images:



Circular map for RG210438