

Product datasheet for RG227042

OriGene Technologies, Inc.

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Xg blood group (XG) (NM_001141920) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Xg blood group (XG) (NM_001141920) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: Xg blood group

Synonyms: PBDX

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG227042 representing NM_001141920
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGAGAGCTGGTGGGGACTTCCCTGTCTTGCGTTCCTGTGTTTTCTAATGCACGCCCGAGGTCAAAGAG
ACTTTGATTTGGCAGATGCCCTTGATGACCCCTGAACCCACAAGAAGCCAAACTCAGATATCTACCCAAA
GCCAAAACCACCTTACTACCCACAGCCCGAGAATCCCAACAGCGGTGGAAATATCTACCCAAAGC
CCACGCCCTCAACCCCAGCCCTGGCAATTCCGGCAACAGTGGAGGTTACTTCAATGATGTGGACCGTGATG
ACGGACGCTACCCGCCCAGGCCCAGGCCACGCCGCCTGCAGGAGGTGGCGGCGGTGGCTACTCCAGTTA
TGGCAACTCCGACAACACGCACGGTGGAGATCACCATTCAACGTATGGCAATCCAGAAGGCAATATGGTA
GCAAAAATCGTGTCTCCCATCGTTCCGTGGTGGTGACACTGCTGGGAGCAGCAGCAGCCAGTTATTTCA

AACTAAACAATAGGAGAAATTGTTTCAGGACCCATGAACCAGAAAATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227042 representing NM_001141920

Red=Cloning site Green=Tags(s)

 ${\tt MESWWGLPCLAFLCFLMHARGQRDFDLADALDDPEPTKKPNSDIYPKPKPPYYPQPENPNSGGNIYPRPKPPQPQPGNSGNSGGYFNDVDRDDGRYPPRPRPPPAGGGGGGGYSSYGNSDNTHGGDHHSTYGNPEGNMV}$

 ${\tt AKIVSPIVSVVVVTLLGAAASYFKLNNRRNCFRTHEPENV}$

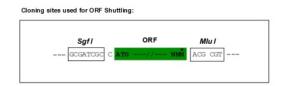
TRTRPLE - GFP Tag - V

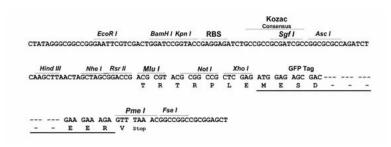
Restriction Sites: Sgfl-Mlul





Cloning Scheme:





ACCN: NM_001141920

ORF Size: 543 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: <u>NM 001141920.1, NP 001135392.1</u>

RefSeq Size: 2902 bp
RefSeq ORF: 546 bp
Locus ID: 7499
UniProt ID: P55808



Cytogenetics: Xp22.33

Protein Families: Transmembrane

Gene Summary: This gene encodes the XG blood group antigen, and is located at the pseudoautosomal

boundary on the short (p) arm of chromosome X. The three 5' exons reside in the

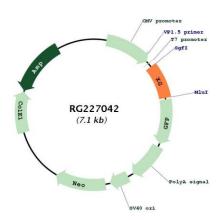
pseudoautosomal region and the remaining exons within the X-specific end. A truncated copy

of this gene is found on the Y chromosome at the pseudoautosomal boundary. It is

transcribed, but not expected to make a Y-chromosome specific gene product. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

[provided by RefSeq, Nov 2008]

Product images:



Circular map for RG227042