OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC227042

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:	Myc-DDK
Symbol:	Xg blood group
Synonyms:	PBDX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC227042 representing NM_001141920
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAGCTGGTGGGGACTTCCCTGTCTTGCGTTCCTGTGTTTTCTAATGCACGCCCGAGGTCAAAGAG
ACTTTGATTTGGCAGATGCCCTTGATGACCCTGAACCCACCAAGAAGCCAAACTCAGATATCTACCCAAA
GCCAAAACCACCTTACTACCCACAGCCCGAGAATCCCGACAGCGGTGGAAATATCTACCCAAGGCCAAAG
CCACGCCCTCAACCCCAGCCTGGCAATTCCGGCAACAGTGGAGGTAGTTACTTCAATGATGTGGACCGTG
ATGACGGACGCTACCCGCCCAGGCCCAGGCCACGGCCGCCTGCAGGAGGTGGCGGCGGTGGCTACTCCAG
TTATGGCAACTCCGACAACACGCACGGTGGAGATCACCATTCAACGTATGGCAATCCAGAAGGCAATATG
GTAGCAAAAATCGTGTCTCCCATCGTATCCGTGGTGGTGGTGACACTGCTGGGAGCAGCAGCCAGTTATT
TCAAACTAAACAATAGGAGAAATTGTTTCAGGACCCATGAACCAGAAAATGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227042 representing NM_001141920
Red=Cloning site Green=Tags(s)

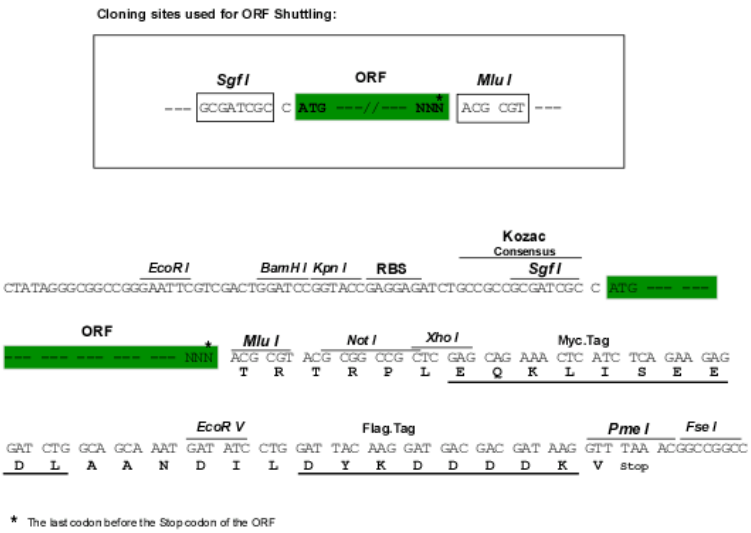
MESWWGLPCLAFLCFLMHARGQRDFDLADALDDPEPTKKPNSDIYPKPKPPYYPQPENPDSGGNIYPRPK
PRPQPQPGNSGNSGGSYFNDVDRDDGRYPPRPRPRPPAGGGGGGYSSYGNSDNTHGGDHHSTYGNPEGNM
VAKIVSPIVSVVVVTLLGAAASYFKLNNRRNCFRTHEPENV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

View online »

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001141920.1, NP_001135392.1

RefSeq Size: 2902 bp

RefSeq ORF: 546 bp

Locus ID: 7499

UniProt ID: P55808

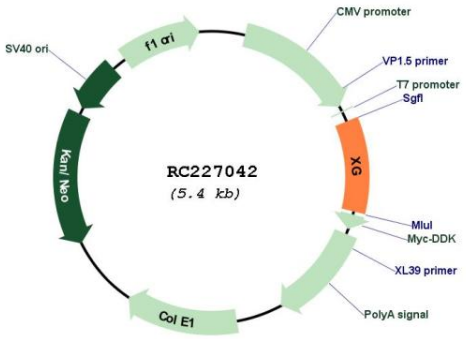
Cytogenetics: Xp22.33

Protein Families: Transmembrane

MW: 19.8 kDa

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 RC227042