

Product datasheet for **RG224025**

Xg blood group (XG) (NM_175569) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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 Sequence: >RG224025 representing NM_175569
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAGCTGGTGGGACTTCCTGTCTTGCCTTCCTGTGTTTTCTAATGCACGCCCGAGGTCAAAGAG
ACTTTGATTGGCAGATGCCCTTGATGACCTGAACCCACCAAGAAGCCAACTCAGATATCTACCCAAA
GCCAAACACCTTACTACCCACAGCCGAGAATCCGACAGCGGTGGAATATCTACCCAAAGGCCAAAG
CCACGCCCTCAACCCAGCCTGGCAATCCGGCAACAGTGGAGTTACTTCAATGATGTGGACCGTGATG
ACGGACGCTACCCGCCAGGCCAGGCCAGGCCGCTGCAGGAGGTGGCGCGGTGGCTACTCCAGTTA
TGGCAACTCCGACAACACGCACGGTGGAGATCACCATTCAACGTATGGCAATCCAGAAGGCAATATGGTA
GCAAAAATCGTGTCTCCCATCGTATCCGTGGTGGTGACACTGCTGGGAGCAGCAGCCAGTTATTTC
AACTAAACAATAGGAGAAATTGTTTCAGGACCCATGAACCAGAAAATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG224025 representing NM_175569
Red=Cloning site Green=Tags(s)

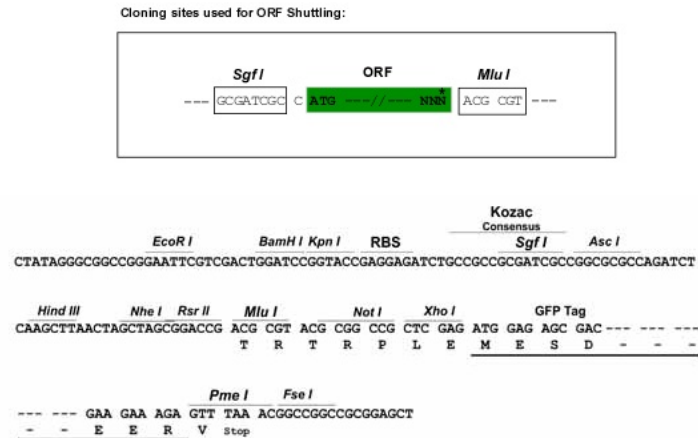
MESWWGLPCLAFCLFMHARGQRDFDLADALDDPEPTKKPNSDIYPKPKPPYPQPENPDSGGNIYPRPK
PRPQPQPGNSGNSGGYFNDVDRDDGRYP RP RP RP P AGGGGGYSSYGNSDNTHGGDHHSTYGNPEGNMV
AKIVSPIVSVVVVTLTGAAASYFKLNNRRNCFRTHPENV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_175569

ORF Size: 540 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_175569.2](#)

RefSeq Size: 2319 bp

RefSeq ORF: 543 bp

Locus ID: 7499

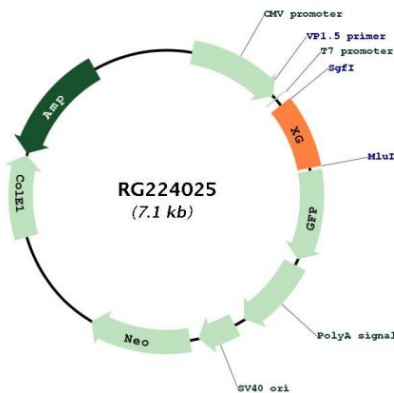
UniProt ID: [P55808](#)

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 RG224025