

Product datasheet for **SC101271**

Xg blood group (XG) (NM_175569) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xg blood group (XG) (NM_175569) Human Untagged Clone
Tag:	Tag Free
Symbol:	Xg blood group
Synonyms:	PBDX
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_175569, the custom clone sequence may differ by one or more nucleotides

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ATGGAGAGCTGGTGGGACTTCCCTGTCTTGCCTTCTGTGTTTTCTAATGCACGCCCGAGGTCAAAGAG
ACTTTGATTTGGCAGATGCCCTTGATGACCCTGAACCCACCAAGAAGCCAAACTCAGATATCTACCCAAA
GCCAAAACACCTTACTACCCACAGCCCGAGAATCCCGACAGCGGTGAAATATCTACCCAAGGCCAAAG
CCACGCCCTCAACCCAGCCTGGCAATCCGGCAACAGTGGAGTTACTTCAATGATGTGGACCGTGATG
ACGGACGCTACCCGCCAGGCCAGGCCACGGCCGCTGCAGGAGGTGGCGCGGTGGCTACTCCAGTTA
TGGCAACTCCGACAACACGCACGGTGGAGATCACCATTCAACGTATGGCAATCCAGAAGGCAATATGGTA
GCAAAAATCGTGTCTCCATCGTATCCGTGGTGGTGACACTGCTGGGAGCAGCAGCCAGTTATTCA
AACTAAACAATAGGAGAAATTGTTTCAGGACCCATGAACCAGAAAATGTCTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_175569 unedited CAAATTTTGTATACGACTACTATAGGCGGCCGCGAAATTCGCACGAGGCTTGAAGACTCG CCTCCCTTCTCCAGCTGGGAGACCAGAAGTCAACAACAGGAGGGTGGAGAGGCCGGGT CTCACAATCCGCTTGGCTGGGGAGTCCACTGAGGTTCTTGATCCTGAAGCAAACCATGG AGAGCTGGTGGGACTTCCCTGTCTTGCCTTCTGTGTTTTCTAATGCACGCCGAGATA TCTACCCAAAGCCAAAACACCTTACTACCCACAGCCGAGAATCCCGACAGCGGTGGAA ATATCTACCCAAGGCCAAAGCCACGCCCTCAACCCAGCCTGGCAATTCGGCAACAGTG GAGGTTACTTCAATGATGTGGACCGTGATGACGGACGCTACCCGCCAGGCCAGGCCAC GGCCGCTGCAGGAGGTGGCGGGTGGCTACTCCAGTTATGGCAACTCCGACAACACGC ACGGTGGAGATCACCAATCAACGTATGGCAATTCAGAAGGCAATATGGTAGCAAAATCG TGTCTCCATCGTATCCGTGGTGGTGGTACACTGCTGGGAGCAGCAGCCAGTTATTTCA AACTAAACAATAGGAGAAATGTTTCAGGACCCATGAACCAGAAAATGTCTGAAGATGTT AAGATCCCCTGATTACTTTGAGAAAAACAATAAAACAAGAACCGTGTATCACTGTTG TGGAGATTTCTTTTATTCTTGACACAATTTGATGACCTANAGTGTGTTTTCTTCTGTGT AAAGTACATGAGCTGCCTCACTAAGCATTCCCAACTATTGAAATGTGATGTGGTTATAA AGATAAGTTANGCAGCTAGACCCTGCATTCTANAAGGATGCTTGCATTGGTGGTTGGC TATTCATTGCACAAAGACTGTGCTCTGTGGNGAGATCTCACTACCCATGGTGCATAAC CACACCGCTAAACCATGTGATGCACAAGCGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' genomic read for NM_175569 unedited TCTATGNAACCGCGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTAAAGAATTTACTATTTATTAAGGGGAA GCGGATCACCAATAAAGGGCTTCATCCTTATAATCTTCCCATTGAATAAATGGAGGGTTGG TCCTGCTGTCTAATAATGGCAAAACCCAAAACAACACTACATACCGGTGGACATGTGCA GTTCAACCTGTGTTGTTCAAGGGTCAACTGTACAGTCAAGGTTATCCTTCTCTAAATTA CATGGAAGACCTTTTATCAAGGCTTTTCTCATCTGTTCAATTCACCTTCTCAACAT GAAAACAAAATGCCCAACAGGGGCTCCTCATGACCCTCAAAAAAGGTTCCCAAGCA ATCATGATTCAAATATTTTATCTTAAGTAGCTGAACGTTAACCTGTACCCAGGTGA ATTTAGTCTCATGATTAGGGAATATGTATTTTATGTTTATGTTTATGTTTATGTTTATGTTT AAAAGAGATTTATGGCATCATATTCACAGCTACCAAAGTTCATAATTTTGGGGCCACTTC TACAGTCATTTTACATAAATTTATTTGTGAAATATAGAAAAAACTTTTCCATAATCAAAT CCGTTATTTTCTTTTACATTTATTTAAAAAGATTAATAAATAGTTTATGACAGTTTTAA AAAATGGAATGGATTAAGGCTAAAAATGTTTAAATTCCATTTAATAAGTGTGTGTGTG TGTGTGTGTGTGTNNNGGAGGAACAAAAACACAGGTTTTTTCACAAGAATTTAATT AAGCTCATGCTGAAACTCTTATAGGGAAAATAGTATTGAGCATCGACATCCCCCTCTGA AAAAAACTTCTACAGAAATGAAAAGTGTGCGNGACCTATACTGGATAGGAAATATGACT ATCTTCAATTGCCAATGATGCTGAATCCATTTGAGAC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_175569
Insert Size:	3000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_175569.1](#), [NP_780778.1](#)

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]

Transcript Variant: This variant (1) represents the predominant transcript and encodes isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no quality transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments. Sequence Note: This RefSeq record represents the XG*001.1.1 allele.