

## Product datasheet for **SC112059**

### XLF (NHEJ1) (NM\_024782) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	XLF (NHEJ1) (NM_024782) Human Untagged Clone
Tag:	Tag Free
Symbol:	XLF
Synonyms:	XLF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_024782, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGAACTGGAGCAAGGCCTGTTGATGCAGCCATGGGCGTGGCTACAGCTTGAGAGAACTCCCTCT
TGGCCAAGGTTTTATCACCAAGCAGGGCTATGCCTTGTGGTTTCAGATCTTCAACAGGTGTGGCATGA
ACAGGTGGACACTAGTGTGGTCAGCCAGCGAGCCAAGGAGCTGAACAAGCGGCTCACTGCTCCTCTGCA
GCTTTCCTCTGTCATTTGGATAATCTCCTTCGCCATTGTTGAAGGACGCTGCTCACCTAGCGAAGCTA
CCTTCTCCTGTGATTGTGTGGCAGATGCACTGATTCTACGGGTGCGAAGTGAGCTCTCTGGCCTCCCCTT
CTATTGGAATTTCCACTGCATGCTAGCTAGTCCTTCCCTGGTCTCCCAACATTTGATTGTCCTCTGATG
GGCATGAGTCTGGCATTACAGTGCCAAGTGAGGGAGCTAGCAACGTTACTTCATATGAAAGACCTAGAGA
TCCAAGACTACCAGGAGAGTGGGCTACGCTGATTGAGATCGATTGAAGACAGAACCATTTGAAGAAAA
TTCTTCTTGGAAACAATTTATGATAGAGAACTGCCAGAGGCATGCAGCATTGGTGATGGAAGCCCTTT
GTCATGAATCTGCAGGATCTGTATATGGCAGTCCACACAAAGAGGTCCAAGTGGGACAGAAGCATCAAG
GCGCTGGAGATCCTCATACCTCAAACAGTGCTTCCCTGCAAGGAATCGATAGCCAATGTGTAACCAGCC
AGAACAACGGTCTCCTCAGCCCCAACCTCTCAGCACCTGAGAAAGAGTCCACGGGTACTTCAGGCCCT
CTGCAGAGACCTCAGCTGTCAAAGGTCAAGAGGAAGAAGCCAAGGGGTCTCTTCAGTTAA

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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_024782 unedited NGGTGC GGAATAGTATACGATTCACATAGGGCGGCCGCGAATTCGCACGAGGGGATGAT GGAAGAACTGGAGCAAGGCTGTTGATGCAGCCATGGGCGTGGCTACAGCTTGCAGAGAA CTCCCTCTTGGCCAAGGTTTTATCACCAAGCAGGGCTATGCCTTGTGGTTTCAGATCT TCAACAGGTGTGGCATGAACAGGTGGACACTAGTGTGGTCAGCCAGCGAGCCAAGGAGCT GAACAAGCGGCTCACTGCTCCTCCTGCAGCTTTCCTCTGTCAATTTGGATAATCTCCTTCG CCCATTGCTGAAGGACGCTGCTACCCCTAGCGAAGCTACCTTCTCCTGTGATTGTGTGGC AGATGCACTGATTCTACGGGTGCGAAGTGAGCTCTCTGGCTCCCTTCTATTGGAATTT CCACTGCATGCTAGCTAGTCCTTCCCTGGTCTCCCAACATTTGATTTCGTCTCTGATGGG CATGAGTCTGGCATTACAGTGCCAAGTGAGGGAGCTAGCAACGTTACCTTATATGAAAGA CCTAGAGATCCAAGACTACCAGGAGAGTGGCGCTACGCTGATTTCGCGATCGATTGCAGAC AGAACCCTTTGAAGAAAATTCCTTCTTGAACCAATTATGATACAAGAACCTGCCCGAGG CCATGCAGCATTGTGATGGAAAGCCCTTTGTATGAATCTGCAGGATCCTGCCTACG GCAGTCAACCCCAAGAGGCCAAGTGGGACAGAAGCCTCAAGCGGCTGGAGACCCCA TACCTCAACCAGGCTTTCCTGCGGATCCCTCGCCACTGGGAAACCAGCCGAAACTG TCTCTTATTCCACCCTTAATACCTGATAAAGAGCCCGGTAATTCAGCCTTCTGCCAA ACCCACTGCCAAGGCCAGAGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_024782
<b>Insert Size:</b>	2770 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_024782.1</a> , <a href="#">NP_079058.1</a>
<b>RefSeq Size:</b>	2037 bp
<b>RefSeq ORF:</b>	900 bp
<b>Locus ID:</b>	79840
<b>UniProt ID:</b>	<a href="#">Q9H9Q4</a>
<b>Cytogenetics:</b>	2q35
<b>Protein Pathways:</b>	Non-homologous end-joining

**Gene Summary:**

Double-strand breaks in DNA result from genotoxic stresses and are among the most damaging of DNA lesions. This gene encodes a DNA repair factor essential for the nonhomologous end-joining pathway, which preferentially mediates repair of double-stranded breaks. Mutations in this gene cause different kinds of severe combined immunodeficiency disorders. [provided by RefSeq, Jul 2008]