

## Product datasheet for **RG203393**

### XLF (NHEJ1) (NM\_024782) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	XLF (NHEJ1) (NM_024782) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	XLF
Synonyms:	XLF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203393 representing NM_024782 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGAACTGGAGCAAGGCCTGTTGATGCAGCCATGGGCGTGGCTACAGCTTGCAGAGAACTCCCTCT  
TGGCCAAGGTTTTATCACCAAGCAGGGCTATGCCTTGTGGTTTCAGATCTTCAACAGGTGTGGCATGA  
ACAGGTGGACACTAGTGTGGTCAGCCAGCGAGCCAAGGAGCTGAACAAGCGGCTCACTGCTCCTCTGCA  
GCTTTCCTCTGTCATTTGGATAATCTCCTTCGCCATTGTTGAAGGACGCTGCTCACCTAGCGAAGCTA  
CCTTCTCCTGTGATTGTGTGGCAGATGCACTGATTCTACGGGTGCGAAGTGAGCTCTCTGGCCTCCCTT  
CTATTGGAATTTCCACTGCATGCTAGCTAGTCCTTCCCTGGTCTCCCAACATTTGATTGCTCCTCTGATG  
GGCATGAGTCTGGCATTACAGTGCCAAGTGAGGGAGCTAGCAACGTTACTTCATATGAAAGACCTAGAGA  
TCCAAGACTACCAGGAGAGTGGGGCTACGCTGATTGAGATCGATTGAAGACAGAACCATTTGAAGAAAA  
TTCTTCTTGGAAACAATTTATGATAGAGAACTGCCAGAGGCAATGCAGCATTGGTGATGGAAGCCCTTT  
GTCATGAATCTGCAGGATCTGTATATGGCAGTCACCACACAAGAGGTCCAAGTGGGACAGAAGCATCAAG  
GCGCTGGAGATCCTCATACTCAAACAGTGCTTCCCTGCAAGGAATCGATAGCCAATGTGTAACCAGCC  
AGAACAACCTGGTCTCCTCAGCCCCAACCTCTCAGCACCTGAGAAAGAGTCCACGGTACTTCAGGCCCT  
CTGCAGAGACCTCAGCTGTCAAAGGTCAAGAGGAAGAAGCCAAGGGTCTCTTCAGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203393 representing NM\_024782  
Red=Cloning site Green=Tags(s)

MEELEQGLLMQPWAWLQLAENSLAKVFIKQGYALLVSDLQQVWHEQVDTSVVSQRAKELNKRLTAPPA  
 AFLCHLDNLLRPLLKDAHPSEATFSCDCVADALILRVRELSGLPFYWNFHCMLASPSLVSQHLIRPLM  
 GMSLALQCQVRELATLLHMKDLEIQDYQESGATLIRDRLKTEPFEENSFLEQFMIEKLEACSIGDGKPF  
 VMNLQDLYMAVTTQEVQVGQKHQAGDPHTSNSASLQGIDSQCVNQPEQLVSSAPTLSAPEKESTGTSGP  
 LQRPQLSKVKRKKPRGLFS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_024782

**ORF Size:** 897 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:** [NM\\_024782.3](#)

**RefSeq Size:** 2037 bp

**RefSeq ORF:** 900 bp

**Locus ID:** 79840

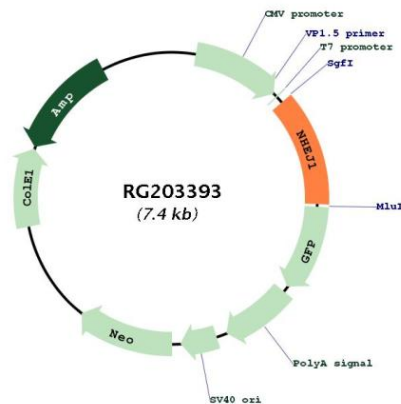
**UniProt ID:** [Q9H9Q4](#)

**Cytogenetics:** 2q35

**Protein Pathways:** 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]

## Product images:



Circular map for RG203393