

## Product datasheet for **SC338159**

### REV3L (NM\_001286432) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	REV3L (NM_001286432) Human Untagged Clone
Tag:	Tag Free
Symbol:	REV3L
Synonyms:	POLZ; REV3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001286432, the custom clone sequence may differ by one or more nucleotides

```
ATGGCATTTCAGTATCGACAGAGCACTTAATGTGGCTTTAGGCAATCCATCTTCCACTGCTCAGCATGTGT  
TCAAAGTGTTCATTAGTATCAGGAATGCCTTTTTATGGTTATCATGAGAAGGAAAGACACTTTATGAAGAT  
CTATCTTTACAATCCTACAATGGTGAAAAGGATATGTGAACCTTTTGCAAAGCGGAGCCATAATGAATAAA  
TTTTACCAGCCTCATGAAGCGCATATCCCTACCTCCTACAGCTCTTCATTGACTACAATCTTTATGGCA  
TGAATTTAATAAATCTGGCTGCTGTCAAGTTCGAAAAGCAAGAAGGAAAAGTAATACATTGCATGCAAC  
TGGATCCTGCAAGAATCATTTATCAGGAAATCTCTTGCTGATACTTTATTTCCGGTGGGAACAAGATGAA  
ATACCAAGCTCTTTAATATTGGAAGGTGTGAACCACAGAGTACATGTGAATTAGAAGTGGATGCTGTAG  
CTGCTGATATCTTAAATCGTCTGGACATTGAAGCTCAAATTTGGTGGAAACCCTGGTCTACAGGCCATATG  
GGAAGATGAAAAGCAACGGCGAAGAAAACAGAAATGAAACTTCTCAAATGAGCCAACCTGAGTCACAAGAT  
CACAGGTTTGTGCCAGCAACAGAAAAGTGAATAAATTTTTCAGAAGAGACTTCAGGAAATCTCAAACAGA  
ATGATTTCTCTGTAAACATTATCAGGATCTGTGGACTACAGCGATGGATCCCAGGAGTTCTCTGCTGAGTT  
AACATTGCACTCTGAGGTTCTGTCTCCTGAAATGCTTCAGTGTACACCAGCCAATATGGTAGAAGTTCAC  
AAAGACAAAGAGTCAAGCAAAGGTCACACTAGACACAAAGTGAAGAAGCTCTTATTAATGAAGAAGCAA  
TTTTGAACCTTATGGAATAAGTCAAGCTTTTCAGCCTTTGACCCAAAGACTGAGTGAGTCACCTGTTTT  
CATGGACAGTAGTCTGATGAGGCTCTGGTACATCTTCTTGCTGGTTTGGAAAGTATGGATATCGGGGG  
GAAAGAAATAGGATGCCATCACCATGTCGCTCCTTTGGAATAAATAATATCCACAAAATAGTGATGATG  
AAGAAAATGAACCACAGATTGAAAAAGAGGAAATGGAGCTTAGTTTGGTATGTCCAGAGATGGGACAG  
CAATATTGAAGAACATTGTGCCAAAAAGAGATCACTGTGCAGAAATACCCACAGAAGTTCAACTGAAGAT  
GATGACTCATCTTCAGGAGAAGAAATGGAATGGAGTGATAACAGTTTGTCTTAGCCAGTCTTTCTATAC  
CTCAGTTAGATGGAAGTGCAGATGAAAATAGTGACAATCCATTGAACAATGAAAATCTAGAACCCACTC  
TTCTGTAATTGCAACAAGCAAGCTTTTCAGTTAAACCCTCCATCTTTCACAAAGATGCTGCTACATTAGAA  
CCCTCATCTTCTGCTAAGATTACCTTTTCAGTGTAAACACACAAGTGCCCTTTCTCCCATGTTTTGAACA  
AGGAAGATTTAATTGAAGACCTTTCACAGACAAAACAAAATACAGAAAAGGTCTAGATAACTCAGTCAC
```



[View online »](#)

TTCTTTTACAAACGAAAGCACTTATTCTATGAAATACCCTGGATCTTTAAGCAGTACTGTTCATTAGAA  
AATTCTCATAAAGAGAATAGTAAGAAAGAGATCCTCCCAGTATCTTCTGTGAAAGTAGTATTTTGGATT  
ATGAAGAAGATATTCCATCTGTTACAAGACAAGTACCAAGTAGAAAAATACAAACATTAGAAAAATCGA  
AAAGGATCCCCTTTTATACATATGCACCGTACCCTAACGAGAATACATTGGGCAAAAATCTTTCAAC  
TTTTCTGACTTAAATCATTCAAAAAATAAGTATCCTCTGAAGGAAATGAAAAAGGAAACAGCACAGCTC  
TGAGTAGTTTATCCCTTCATCATTACTGAAAATTGTGAATTACTGTCATGCTCAGGGGGAATAGAAC  
TATGGTGCATTCTTAAATAGCACTGTGATGAAAGTGGACTAAATAAACTTAAATAGGTATGAAGAA  
TTTCAAGAACATAAAAACGAAAAGCCTCAGCCAGCAAGCAGCACACTATATGTTTTTCCCAGTG  
TTGTTCTTTCTAACTGTCTTACTAGACCACAGAACTATCTCCTGTCACATATAAATTACAACTGGCAA  
TAAACCATCCCGTTAAAATTGAATAAAAAGGAACTTGCAGGTATCAGGAGACTTACCAAAAAGTAGT  
GAGACTGGATCCACAAAAGATAATTTTATACAAAATAATCCTTGTAAATAGTAATCCTGAGAAGGATAATG  
CATTGGCTAGTGATTTAACTAAAACCACTCGTGGAGCTTTTAAAATAAAAACCCACAGATGGTTTTAT  
AGACTGCACTTTGGAGATGGAACGTTAGAAAAGTACAGCTCCTTTGGACTATATGAAAATAAATACACA  
CTTAGACCAAACGCAAGGTAATTTATGAGACTGAAGACAGTGAAGTCAAGTTTTGTAACCACTCAA  
AAATTAGTCTACCTCATCCCATGGAATTTGGTGAAGTTAGATGGAACCTCAAATCCCGAAAACGAAG  
AAAAATGTCTAAAAGCTGCCCTGTATCATAAAGTATATTATTATTAGATTTAGAGGGAGAAAA  
AATATGCTTGTGAAGCTAGGAAAAATAGACTCTAAAGAAAAACAAGTAATATTAACAGAAGAAAAATGG  
AACTATATAAAAAGCTTGCACCTTTGAAGGACTTTTGGCCAAAAGTTCCCGACTCCCCTGCAACCAATA  
TCCCATTTATCCACTAACACCAAGAAAAGTACAGAGAAGAAAGTCAAAACATAAATCTGCTAAGAAAAAA  
ACTGGTAAACAACAAAGGACAAAATAAGAAAATATTAAGAAGTCTTGTCTTTCCAGAAAAAACGGTCCAC  
ATGCTATTTCTTCTCCTCCCTCACCATCTACAATGCTGAAACCGAAGATTGTGACCTGAATTATAGTGA  
TGTTATGCTAACTAGGTTTTCTTTCTGAGAGAAGCACAAGTCCCATAAATCTTCTCCACCTCGCTGC  
TGGTCTCCACAGATCCAAGAGCTGAAGAAATCATGGCTGCTCAGAAAAAGAGGCAATGCTTTTTAAGG  
GTCTTAATGTATATAAGAAAGACTGTTAATTTCTCGTATAGGAAAAACTAGTCGCGCAAGAGCAGATTA  
GAAATCAAAGCAAAGCTTGTAAATCCCTCTATAGTTACTAAGAAAAGGAACAAACGAAATCAGACAAAT  
AACTAGTAGATGATGAAAAAAGAAAACCAAGAGCAAAACAAAAACAATGAGAAAGGTACATCGAGAA  
AGCATACAACACTTAAGGATGAAAAATAAATCTCAGTCTGGTGTGAGGTTAAGTTTGTACTGAAACA  
CCAGAATGTGTCTGAATTTGCAAGTAGTCTGGAGGCTCTCACTACTTTTTAAACAGAAAGATATGCCA  
CTAATGGGCTCTGCTGTAGATCATCCCCTTTCTGCTTCCCTACCCACTGGAATTAATGCACAACAGAAGT  
TATCTGGTCTTTTTCTTCTTTCTTAGAAAGCAAGAAGTCTGTAGATTTGCAGACATTCCCAGTTCACG  
AGATGATTTGCATCCATCAGTTGTTTGAATTTCTATAGGACCTGGAGTCTCAAAAATTAATGTTCAAAGG  
CCTCATAAATCAAAGTGTATGTTTACTCTAAAGGAATCAACGTTAATTCAAAAAATATATTTGACCTTT  
CCAATCATTTATCTCAGGTAGCACAGAATACACAGATATCTTCTGGTATGCTCTCAAAGTAGAAGATAA  
TGCAAAATAATATACAAAGAACTATTTGTATCAATCGGAAAGTTAAGTGAATATCGCAATTCCTAGAA  
TCAAAGCTGGACCAAGCATATACCCCTAATTTTTTGCATTGCAAAGACAGTCAAGCAGCAGATTGTGTGCA  
TAGCGGAACAGTCAAAGCACAGTGAACCTGTTCTCCGGGAAATACAGCTTCAGAGGAAAGCCAAATGCC  
TAATAATTGCTTTGTAACCTTCTTGAGAAGTCCAATCAAACAAATAGCATGGGAGCAAAGCAAAGGGGC  
TTTTTTTTAGATATGTCAAATTTTAAACCTGAAAGAGTAAAACCGAGGTGTTATCAGAAGCAATTTAC  
AAACCAAAGCACTTTCTCAGTGTAAAAATCGAAATGTGTCAACACCTTCAGCATTGTTGTAAGGACAGTC  
TGGACTGGCAGTTCTAAAAGAATTGTTACAAAAAAGACAGCAGAAAGCACAAAATGCAAAATACTACACAA  
GACCCATTATCCAATAAACATCAACCAATAAAAAATTTTCTGGTTCCCTTGAGCATAACAAAGCAAATA  
AACGGACACGATCGGTAACGTCCCAAGAAAACCTCGAACTCCAGAAAGTACAAAACAAAAAGAAAAAT  
CCCCAACTTCTCAAAGTAGACTCTTTAAATTTACAAAACCTAGCCAGTTGGATAACTCTGTATCAGAT  
GATAGTCCATCTTTTTTTCAGATCCAGGCTTTGAAAGTTGTTACTCACTTGAAGATAGTTTATCTCCTG  
AACATAATTATAATTTTGTATTAACACAATAGGTGAGTGGATTTTGTAGCTTTTATTCTGGAAGTCA  
GTTTGTCCAGCTGATCAGAATTTGCCTCAGAAGTTCTAAGTGTGCTGTTTCCAGGATCTTTTTCCAGGA  
CAAGCTATAGAAAAAATGAGTTTTAAGTCATGACAACCAGAAATGTGATGAAGACAAGCATCATACCA  
CAGACTCAGCCTCATGGATTAGATCTGGTACTTTAAGTCCTGAAATTTTTGAGAAGTCAACCATAGATAG  
CAATGAGAATCGTCGCCACAACCAAGTGGAAAAATAGCTTTTCATCTCTAACAACCTCGGTCTAACTCAATA  
ATGGATTCTTTCTGTGTTTCCAGCAGGCAAGACTGTCTAAGTAAAAATCTAGATTGAATAGGAGTTTCAG  
TAAGCAAAGAAGTGTCTTAGCCTCCACAGCCAAACAATTCAGACTGGATTCAAGGTCACACCAGAAA  
AGAAATGGGACAGTCTTTGACTCAGCCAATACCTTTTTACTGCAACTCTCTCCCCTGATGGTGAA

CTGTGACGCTGGCCTGTGAAGATTTAGAAGTGTATGTTTCAAGAAACAATGATATGTTGACACCAACT  
 CTGATAGTTTACCAAGATCTACTAGCTCTCCTTCAACAATCAAAAATGGCAGCTTACCCCTCGAACTGC  
 TAACATTCTGAAACCACTTATGTCCCCCAAGTAGGGAAGAAATATGGCAACTTTGTTGGATCATGAC  
 CTGTCTGAGACTATTTACCAGGAACATTTTGCAGTAATCCTTCTGATGTACCAGAAAAGCCAGGGAGA  
 TTGGTGGACGGCTCCTCATGGTAGAACTCGACTTGCAAATGATCTGGCTGAGTTTGAGGGAGACTTTTC  
 CTTGGAAGGACTTCGTCTTTGAAAAACAGCATTCTCAGCAATGACTCAGAATCCAAGGCCAGGGTCACCC  
 CTTGCGAGTGGCAAGGAGTTGTCAATAAAGGGTCAAGTAAATAGCCCTAAGATGGTTGAAGATAAAAAA  
 TTGTGATTATGCCTTGCAAAATGTGCCCAAGTCGACAACCTGGTTCAAGTGTGGCTTCAAGCCAAAGAGA  
 ATACGAACGTTTCAAGAACTGCCTAAAACCAAGCCAACCTGGAGTTGTAATACTGCTGAGAAGTTTAGC  
 TCTTCAGTTAACCAGATGACAAACCTGTAGTGCCTCAAAAAATGGATGTAAGTCCATGTATACTCCCA  
 CTACAGCACATACCAAGGAGGATGTTGATAATTCTCAGATTGCTTTACAAGCACCACCAGGGATGTAG  
 TCAAACTGCAAGTAAAGTCAAGTGTGCCACCAGTTGCCTCTGCAAGTATCCGAAAAAGATGAAGAT  
 GATGATGATAACTATTACATTAGTTATAGTCCCTGATTCTCCAGTAATCCCCCTTGGCAACAACCA  
 TATCCCAGATTCAAAGCATTAAATGGAGATGATAGACCCTCATCACCAGTAGAGGAGCTGCCTTCATT  
 GGCTTTTGAGAAGTTCTTAAAGCCAATAAAGATGGTATACAAAAAGCCCTGCAGTGAGCCTCAAGAG  
 CCTCTAGTGATATCTCCAATTAATACTAGGGCAAGAACTGGGAAATGTGAATCACCTTTGCTTTCATAGTA  
 CACCAATCATACAGAGAAAACCTTCTGGAAGGGCTTCTGAAGCACCTGGCCTTAGCCATTATCAACAGA  
 ACCAAAAACACAGAAGTTGAGTAATAAGAAAGGAAGTAATACTGACACTCTTAGAAGAGTACTGTTAAAC  
 CAAGCAAGAAATCAATTTGCAGCAGTAAATACCCACAGAAAGAACTTCTCAGATTGATGGACCATCTT  
 TAAACAATACTTACGTTTCAAAGTCAAGTACAAAACTTACAGGAGGCAAAAAGCTTTACATGAGATACA  
 AAATCTTACCCTAATCAGTGTGGAGTTGCATGCTCGAACTAGACGAGACTTAGAACCGGATCCTGAATTT  
 GACCCAATCTGTGCTCTGTTCTACTGCATCTCATCTGACACTCCACTGCCAGATACAGAAAAACAGAAC  
 TCACAGGTGTAATAGTGATTGATAAAGACAAGACAGTTTTCAAGTCAAGATATCAGATATCAGACTCCAT  
 ACTTATTAGACTGGAATTACAGGACTCGAAGTCACTATGCTGCTGATGAGAAGGCATTTTTTCATGAA  
 ATTGCAAAATAATAAAGAGGTATGATCCTGATATTCTGCTAGGATATGAGATTCAGATGCATTCCTGGG  
 GTTACCTCTTACAAGGGCTGCCGCTTTAAGTATTGACTTATGTCGGATGATCTCTCGGGTCCAGATGA  
 CAAAATTGAGAACAGATTTGCAGCTGAAAGAGATGAGTATGGATCATATACAATGAGTGAGATAAATATT  
 GTTGGCCGAATTACACTAACTTTGGAGAATCATGAGAAATGAGGTGGCTCTAACTAACTACACCTTTG  
 AAAATGTGAGCTTTCATGTTCTTATCAGCGTTTTCCCTCTTACCTTTCGAGTCTTGCAGACTGGTT  
 TGATAACAAGACAGATCTATACAGATGGAAAATGGTTGATCATTATGTTAGCCGTGTCGGTGAATCTC  
 CAAATGTTAGAACAGCTGGACCTGATTGGGAAAACAGTGAAGTGGCTAGACTTTTTGGCATTGAGTTTT  
 TACATGACTGACAAGGGTTTACAGTACCGTGTGGAATCAATGATGTTGCGTATTGCTAAACCAATGAA  
 CTATATTCCTGTGACACCTAGTGTTCAGCAAAGATCCCAGATGAGAGCCCCACAGTGTGTTCTCTAATT  
 ATGGAGCCTGAATCCCGCTTCTATAGCAACTCTGTTCTCGTTTTGGATTTCCAATCACTTTATCCTTCTA  
 TTGTGATTGCATATACTACTGCTTTTCCACCTGCCTTGGCCATGTGGAGAACTTGGGAAAGTATGATGA  
 GTTCAAATTTGGCTGTACCTCTCTGAGAGTACCTCCAGATTTACTTTACCAAGTTAGGCATGATATCACA  
 GTGTCCCCAATGGAGTAGCTTTTGTCAAGCCTTCAAGTAAAGGTTACTACCAAGAATGCTTGAAG  
 AAATTTTGAAGACTAGATTTATGGTGAAGCAGTCAATGAAGCCTTACAAGCAAGACAGAGCCCTGTCAG  
 AATGCTTGATGCGCGTCAGTTGGGACTTAAAGTATGATGCAAAATGTCACATTTGGCTATACATCTGTAAT  
 TTTTCTGGGAGAATGCCATGCATTGAGTTGGCGATAGTATTGTTCAAAAGCCAGAGAGACTTGGAAAC  
 GAGCTATTAACCTGGTGAATGATACCAAGAAATGGGGGGCTAGGTTGTATATGGCGATACTGACAGTAT  
 GTTTGTGCTACTGAAAGGAGCCACTAAGGAGCAGTCTTTTAAAGATTGGTCAGGAAATGGCGAAGCTGTA  
 ACTGCTACCAATCCTAAACCAAGTGAATTAAGATTGAAAAGGTATATTTGCCCTGTGTTTTACAAAACA  
 AAAAGAGGTATGTGGTTACATGTATGAAACACTGGATCAGAAGGACCCAGTATTTGATGCAAAAAGGAA  
 AGAAACAGTCAGAAGAGATTCTGCCCTGCTGTTTCTAAGATACTTGAAGCTTCTTAAAGCTGCTATTT  
 GAAACGAGAGATATAAGTCTAATTAACAGTATGTTTCAAGCACAATGATGAAGCTTCTGGAAGGAAAGG  
 CCAGCATACAAGACTTTATCTTTGCCAAGGAATACAGAGGAAGTTTTTCTATAAACCAGGAGCTTGTGT  
 GCCAGCCCTTGAACCTACAAGGAAAATGCTGACTTATGACCGGCCCTCTGAGCCTCAGGTTGGGGAGCGA  
 GTGCCATACGTATCATTATGGGACCCCGGAGTACCCTTATCCAGCTTGAAGGCGCCAGTGGGAAG  
 TCCTGCAGGACCAACTCTGAGACTGAATGCTACTTACTATATTACCAAGCAAAATCCTTCCACCCTTGGC  
 AAGAATCTTCTACTTATTGGTATTGATGTCTTCAAGTGGTATCATGAATTACCAAGGATCCATAAAGCT  
 ACCAGCTCCTCGCAAGTGAACCTGAAGGGCGAAAGGCCTATTTACAATATTTTACTACCTTACACT

```
GCCTGTGTGATGACCTAACTCAGCATGGCATCTGTAGTAAATGTCGGAGCCAACCTCAGCATGTTGC
AGTCATCCTCAACCAAGAAATCCGGGAGTTGGAACGTCAACAGGAGCAACTTGTAAGATATGCAAGAAC
TGTACAGGTTGCTTTGATCGACACATCCCATGTGTTTCTCTGAAGTCCCAAGTACTTTTCAAACCTCCC
GAGTAAATAGAGAATTGTCCAAGGCACCATATCTCCGGCAGTTATTAGACCAGTTTAA
```

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001286432
<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_001286432.1</a> , <a href="#">NP_001273361.1</a>
<b>RefSeq Size:</b>	10982 bp
<b>RefSeq ORF:</b>	9159 bp
<b>Locus ID:</b>	5980
<b>UniProt ID:</b>	<a href="#">O60673</a>
<b>Cytogenetics:</b>	6q21
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways
<b>Gene Summary:</b>	<p>The protein encoded by this gene represents the catalytic subunit of DNA polymerase zeta, which functions in translesion DNA synthesis. The encoded protein can be found in mitochondria, where it protects DNA from damage. Defects in this gene are a cause of Mobius syndrome. [provided by RefSeq, Jan 2017]</p> <p>Transcript Variant: This variant (3) differs in its 5' UTR and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (b) is shorter at the N-terminus, compared to isoform a. Both variants 2 and 3 encode isoform b.</p>