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# Product datasheet for SC333687

## POLR2H (NM_001278714) Human Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | POLR2H (NM_001278714) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | POLR2H |
| **Synonyms:** | RPABC3; RPB8; RPB17 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Fully Sequenced ORF:** | >SC333687 representing NM_001278714.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s)<br><br>GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG<br>GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC<br>ATGGCGGGCATCCTGTTTGAGGATATTTTCGATGTGAAGGATATTGACCCGGAGGGCAAGAAGTTTGAC<br>CGAGTGTCTCGACTGCATTGTGAGAGTGAATCTTTCAAGATGGATCTAATCTTAGATGTAAACATTCAA<br>ATTTACCCTGTAGACTTGGGTGACAAGTTTCGGTTGGTCATAGCTAGTACCTTGTATGAAGATGGTACC<br>CTGGATGATGGTGAATACAACCCCACTGATGATAGGCCTTCCAGCTCTGCGTACGTGTCCTATGGGGGC<br>CTGCTCATGAGGCTGCAGGGGGATGCCAACAACCTGCATGGATTCGAGGTGGACTCCAGAGTTTATCTC<br>CTGATGAAGAAGCTAGCCTTCTGA<br>ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT<br>TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC |
| **Restriction Sites:** | SgfI-MluI |

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Plasmid Map:


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| **ACCN:** | NM_001278714 |
| **Insert Size:** | 369 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001278714.1 |

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| **RefSeq Size:** | 1180 bp |
| **RefSeq ORF:** | 369 bp |
| **Locus ID:** | 5437 |
| **UniProt ID:** | P52434 |
| **Cytogenetics:** | 3q27.1 |
| **Protein Families:** | Transcription Factors |
| **Protein Pathways:** | Huntington's disease, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase |
| **MW:** | 13.8 kDa |
| **Gene Summary:** | The three eukaryotic RNA polymerases are complex multisubunit enzymes that play a central role in the transcription of nuclear genes. This gene encodes an essential and highly conserved subunit of RNA polymerase II that is shared by the other two eukaryotic DNA-directed RNA polymerases, I and III. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013]<br>Transcript Variant: This variant (5) lacks an alternate in-frame exon in the 5' coding region and uses an alternate splice site in the 3' coding region, resulting in a frameshift, compared to variant 1. It encodes isoform 4, which is shorter and has a distinct C-terminus, compared to isoform 1. |