

## Product datasheet for **TP304289**

### Cyclin E1 (CCNE1) (NM\_001238) Human Recombinant Protein

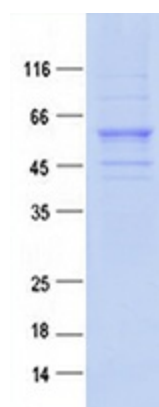
#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Purified recombinant protein of Human cyclin E1 (CCNE1), transcript variant 1, 20 µg   |
| Species:                              | Human  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >RC204289 protein sequence<br><span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)<br><br>MPRERRERDAKERDTMKEDGGAEFARSRSRKRKANVTVFLQDPDEEMAKIDRTARDQCGSQPWDNNAVC<br>AD<br>PCSLIPTDPKEDDDRVPNSTCKPRIIAPSRGSPVLSWANREEVWKIMLNKEKTYLRDQHFLEQHPLL<br>QPKMRAILLDWLMEVCEVYKLHRETFYLAQDFFDRYMATQENVVKTLLQLIGISLFIAAKLEEIYPPKL<br>HQFAYVTDGACSGDEILTMELMIMKALKWRLSPLTIVSWLNVYMQVAYLNDLHEVLLPQYPQQIFIQIAE<br>LLDLCVLDVDCLEFPYGILAAALYHFSSSELMQKVSGYQWCDIENCVKWMVPFAMVIRETGSSSKLKHFR<br>GVADEDAHNIQTHRSLDLLDKARAKKAMLSEQNRASPLPSGLLTPPQSGKKQSSGPEMA<br><br><span style="color: red;">TR</span> <span style="color: green;">TRPLEQKLISEEDLAANDILDYKDDDDKV</span> |
| Tag:                                  | Myc-DDK  |
| Predicted MW:                         | 47.1 kDa   |
| Concentration:                        | >0.05 µg/µL as determined by microplate Bradford method  |
| Purity:                               | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:                               | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| Note:                                 | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.   |
| Storage:                              | Store at -80°C after receiving vials.  |
| Stability:                            | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  |
| RefSeq:                               | <a href="#">NP_001229</a>  |
| Locus ID:                             | 898  |
| UniProt ID:                           | <a href="#">P24864</a>   |


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|                   |  |
|-------------------|--|
| RefSeq Size:      | 2021   |
| Cytogenetics:     | 19q12  |
| RefSeq ORF:       | 1230   |
| Synonyms:         | CCNE; pCCNE1   |
| Summary:          | The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK2, whose activity is required for cell cycle G1/S transition. This protein accumulates at the G1-S phase boundary and is degraded as cells progress through S phase. Overexpression of this gene has been observed in many tumors, which results in chromosome instability, and thus may contribute to tumorigenesis. This protein was found to associate with, and be involved in, the phosphorylation of NPAT protein (nuclear protein mapped to the ATM locus), which participates in cell-cycle regulated histone gene expression and plays a critical role in promoting cell-cycle progression in the absence of pRB. [provided by RefSeq, Apr 2016] |
| Protein Families: | Druggable Genome, Stem cell - Pluripotency, Stem cell relevant signaling - DSL/Notch pathway, Transcription Factors  |
| Protein Pathways: | Cell cycle, Oocyte meiosis, p53 signaling pathway, Pathways in cancer, Prostate cancer, Small cell lung cancer   |

### Product images:



Purified recombinant protein CCNE1 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.