

Datasheet for ABIN7562271 TRF2 Protein (AA 1-541) (His tag)



Overview

| Quantity: | 1 mg |
|-------------------------------|---|
| Target: | TRF2 (TERF2) |
| Protein Characteristics: | AA 1-541 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This TRF2 protein is labelled with His tag. |

Product Details

| Purpose: | Custom-made recombinant Terf2 Protein expressed in mammalian cells. |
|-----------|--|
| Sequence: | MAAGAGTAGP ASGPGVVRDP MASQPRKRPS REGGEGGEGE RRSNTMAGGG GSSDSSGRAA |
| | SRRASRSGGR ARRGRHEPGL GGAAERGAGE ARLEEAVNRW VLKFYFHEAL RAFRSSRYRD |
| | FRQIRDIMQA LLVRPLGKEH TVSRLLRVMQ CLSRIEEGEN LDCSFDMEAE LTPLESAINV |
| | LEMIKTEFTL TDSMVESSRK LVKEAAVIIC IKNKEFEKAS KILKKYMSKD PTTQKLRTDL |
| | LNIIREKNLA HPVIQNFSYE VFQQKMLRFL ESHLDDTEPY LLTMAKKALK SESAASSTMR |
| | EEKHPEPVEK PLREPPSRQP QNPPATIGIR TLKAAFKALS TAQDSEAAFA KLDQKDLVLA |
| | NLASPSSPAH KHKRPRKDEH ESAAPAEGEG GSDRQPRNSP MTISRLLLEE DSQSTEPSPG |
| | LNSSHKAMSA SKPRALNQPH PGEKKPKASK DKWNSPNGLE EKEVWLEEDQ LFEVQAPGED |
| | RSSSLTRKQK WTIEESEWVK DGVRKYGEGN WAAISKSYPF VNRTAVMIKD RWRTMKKLGM N |
| | Sequence without tag. The proposed Purification-Tag is based on experiences with the |
| | expression system, a different complexity of the protein could make another tag necessary. |
| | In case you have a special request, please contact us. |

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Product Details

| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different |
|------------------|--|
| | isoform, please contact us regarding an individual offer. |
| Characteristics: | Key Benefits: |
| | Made to order protein - from design to production - by highly experienced protein experts. Protein expressed in mammalian cells and purified in one-step affinity chromatography The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. |
| | State-of-the-art algorithm used for plasmid design (Gene synthesis). |
| | This protein is a made-to-order protein and will be made for the first time for your order. Our |
| | experts in the lab try to ensure that you receive soluble protein. |
| | If you are not interested in a full length protein, please contact us for individual protein fragments. |
| | The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified. |
| Purity: | > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
| Grade: | custom-made |
| | |

Target Details

| Target: | TRF2 (TERF2) |
|-------------------|---|
| Alternative Name: | Terf2 (TERF2 Products) |
| Background: | Telomeric repeat-binding factor 2 (TTAGGG repeat-binding factor 2) (Telomeric DNA-binding |
| | protein),FUNCTION: Binds the telomeric double-stranded 5'-TTAGGG-3' repeat and plays a |
| | central role in telomere maintenance and protection against end-to-end fusion of |
| | chromosomes. In addition to its telomeric DNA-binding role, required to recruit a number of |
| | factors and enzymes required for telomere protection, including the shelterin complex, |
| | TERF2IP/RAP1 and DCLRE1B/Apollo. Component of the shelterin complex (telosome) that is |
| | involved in the regulation of telomere length and protection. Shelterin associates with arrays of |
| | double-stranded 5'-TTAGGG-3' repeats added by telomerase and protects chromosome ends, |
| | without its protective activity, telomeres are no longer hidden from the DNA damage |
| | surveillance and chromosome ends are inappropriately processed by DNA repair pathways. |
| | Together with DCLRE1B/Apollo, plays a key role in telomeric loop (T loop) formation by |

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| | generating 3' single-stranded overhang at the leading end telomeres: T loops have been |
|---|---|
| | proposed to protect chromosome ends from degradation and repair. Required both to recruit |
| | DCLRE1B/Apollo to telomeres and activate the exonuclease activity of DCLRE1B/Apollo. |
| | Preferentially binds to positive supercoiled DNA. Together with DCLRE1B/Apollo, required to |
| | control the amount of DNA topoisomerase (TOP1, TOP2A and TOP2B) needed for telomere |
| | replication during fork passage and prevent aberrant telomere topology. Recruits |
| | TERF2IP/RAP1 to telomeres, thereby participating in to repressing homology-directed repair |
| | (HDR), which can affect telomere length. {ECO:0000269 PubMed:20339076, |
| | ECO:0000269 PubMed:20619712, ECO:0000269 PubMed:20622870}. |
| Molecular Weight: | 60.3 kDa |
| UniProt: | 035144 |
| Pathways: | Cell Division Cycle, Telomere Maintenance |
| Application Dataila | |
| Application Details | |
| Application Notes: | We expect the protein to work for functional studies. As the protein has not been tested for |
| | We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| | |
| Application Notes: | functional studies yet we cannot offer a guarantee though. |
| Application Notes: Restrictions: | functional studies yet we cannot offer a guarantee though. |
| Application Notes: Restrictions: Handling | functional studies yet we cannot offer a guarantee though. For Research Use only |
| Application Notes: Restrictions: Handling Format: | functional studies yet we cannot offer a guarantee though. For Research Use only Liquid |
| Application Notes: Restrictions: Handling Format: Buffer: | functional studies yet we cannot offer a guarantee though. For Research Use only Liquid The buffer composition is at the discretion of the manufacturer. |
| Application Notes: Restrictions: Handling Format: Buffer: Handling Advice: | functional studies yet we cannot offer a guarantee though. For Research Use only Liquid The buffer composition is at the discretion of the manufacturer. Avoid repeated freeze-thaw cycles. |