**Project**

**32 proteins with solenoid repeats that were taken from the paper by Kobe and Kajava, 2000:**

* TPR1 - Tetratricopeptide repeat protein 1
* TPR2A - Tetratricopeptide repeat protein 2A
* TPR2B - Tetratricopeptide repeat protein 2B
* TPR3 - Tetratricopeptide repeat protein 3
* TPR4 - Tetratricopeptide repeat protein 4
* TPR5 - Tetratricopeptide repeat protein 5
* TPR6 - Tetratricopeptide repeat protein 6
* TPR7 - Tetratricopeptide repeat protein 7
* TPR8 - Tetratricopeptide repeat protein 8
* TPR9 - Tetratricopeptide repeat protein 9
* TPR10 - Tetratricopeptide repeat protein 10
* TPR11 - Tetratricopeptide repeat protein 11
* TPR12 - Tetratricopeptide repeat protein 12
* TPR13 - Tetratricopeptide repeat protein 13
* TPR14 - Tetratricopeptide repeat protein 14
* TPR15 - Tetratricopeptide repeat protein 15
* TPR16 - Tetratricopeptide repeat protein 16
* TPR17 - Tetratricopeptide repeat protein 17
* TPR18 - Tetratricopeptide repeat protein 18
* TPR19 - Tetratricopeptide repeat protein 19
* TPR20 - Tetratricopeptide repeat protein 20
* TPR21 - Tetratricopeptide repeat protein 21
* TPR22 - Tetratricopeptide repeat protein 22
* TPR23 - Tetratricopeptide repeat protein 23
* TPR24 - Tetratricopeptide repeat protein 24
* TPR25 - Tetratricopeptide repeat protein 25
* TPR26 - Tetratricopeptide repeat protein 26
* TPR27 - Tetratricopeptide repeat protein 27
* TPR28 - Tetratricopeptide repeat protein 28
* TPR29 - Tetratricopeptide repeat protein 29
* TPR30 - Tetratricopeptide repeat protein 30
* TPR31 - Tetratricopeptide repeat protein 31

Tetratricopeptide repeat proteins are a type of solenoid repeat protein.

**Additional DataBase Collected From:-**

* **Pfam database:-**

1. HEAT - Huntingtin, elongation factor 3, protein phosphatase 2A, TOR1
2. Armadillo - Armadillo/beta-catenin-like repeat
3. WD40 - WD40-repeat-containing domain
4. Kelch - Kelch repeat-containing domain
5. Ankyrin - Ankyrin repeat-containing domain
6. TPR - Tetratricopeptide repeat-containing domain
7. ARM - Armadillo repeat-containing domain
8. Sel1 - Sel1 repeat-containing domain
9. HEAT-like - HEAT-like repeat-containing domain
10. VWA - von Willebrand factor A repeat-containing domain

* **SMART database:-**

1. HEAT - Huntingtin, elongation factor 3 (EF3), protein phosphatase 2A (PP2A), and TOR1
2. Armadillo
3. HEAT-like repeat
4. Kelch repeat
5. Ankyrin repeat
6. TPR-like repeat
7. Armadillo-type fold
8. HEAT-like domain
9. Armadillo-type fold-like
10. Kelch-type fold

* **InterPro database**

1. HEAT repeat - Huntingtin, elongation factor 3, protein phosphatase 2A, TOR1
2. Armadillo - Armadillo/beta-catenin-like repeat
3. WD40 repeat - Trp-Asp 40 repeat
4. Kelch repeat - Beta-propeller repeat
5. Ankyrin repeat - Ankyrin repeat-containing domain
6. ARM repeat - Armadillo repeat-containing domain
7. TPR repeat - Tetratricopeptide repeat-containing domain
8. Sel1 repeat - Sel1 repeat-containing domain
9. HEAT-like repeat - HEAT-like repeat-containing domain
10. VWA repeat - von Willebrand factor A repeat

**For protein domain structures and their classifications:-**

* + - The CATH database (<http://www.cathdb.info/>)
    - Search the Protein Data Bank (PDB): The PDB (<https://www.rcsb.org/>)

**DownLoad Page:-**

* Cath Download Link(): <http://www.cathdb.info/download>
* 105 Protein(): <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0263566>
* 247 Protein() (35 precent): <http://old.protein.bio.unipd.it/raphael/precompiled.html>

***Downloaded Data is in Project Folder(Desktop)***