Question 1

Name: TDP-43, Tar DNA binding protein.

Assession ref\_seq gene ID: NP\_031401

Species: Homo Sapiens

Question 2:

Method: TBLASTN search against ESTs using NCBI

Data base: Expressed Sequence Tags

Organism: NematodesGraphical user interface, text, application, chat or text message

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Choosen match:

Accession number [FF098943.1](https://www.ncbi.nlm.nih.gov/nucleotide/FF098943.1?report=genbank&log$=nucltop&blast_rank=1&RID=XZTBZ2ES013), a 646 basepair length mRNA sequences from caenorhabditis brenneri. See below for more details.

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Question 3:

>C. elegans protein (sequence taken from BLAST result)

KRAVERDSQPVDLIVLGVDFKTSDDCFQKYFEEIGTVVFCEIKRK-SDGNSKGFGFVRMS

SVGEQNKVLAIPQHMIDGRRCDVKVPDGRDKQGRPSISR-IFVGRLTDKVDEYQLRKVFG

DEAKSYIESAVVTDVFIPKPFRGFAFVSLSSAEAAERIVSKGSLTVNGLSVGLSIAQPRE

EN

Name:

CPAD-aab47f04.b1 PB2801\_EST\_CPAD1 Caenorhabditis brenneri cDNA

similar to ref|NP\_495921.1| RNA binding protein like (45.5 kD)

[Caenorhabditis elegans] pir|T22207 hypothetical protein F44G4.4 -

Caenorhabditis elegans emb|CAA90120.1| Hypothetical protein F44G4.4

[Caenorhabditis elegans], mRNA sequence

ORGANISM [Caenorhabditis brenneri](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=135651)

Eukaryota; Metazoa; Ecdysozoa; Nematoda; Chromadorea; Rhabditida;

Rhabditina; Rhabditomorpha; Rhabditoidea; Rhabditidae; Peloderinae;Caenorhabditis.

Question 4:

A BLASTP search against NR database (see setup in first screen-shot below) yielded a top hit result is to a protein from C.elegans

Top result is to a protein from C. elegans. Tar DNA-binding protein homolog 1 was identified.

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