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Task 6:

- You need to find both Orthologues and Paralogues for the P53 gene of homo sapiens.

Accession number of selected gene is [AB082923](#)

Orthologues:

Description	Scientific Name	Query Cover	Per. ident	Accession	Explanation
Pan troglodytes tumor protein p53 (TP53), transcript variant X1, mRNA	Pan troglodytes	99%	99.30%	XM_016931470	I sorted by Query cover then by percentage identity and it was the highest then I verified my results by downloading csv file and opening the table in excel and sorting it using excel function.

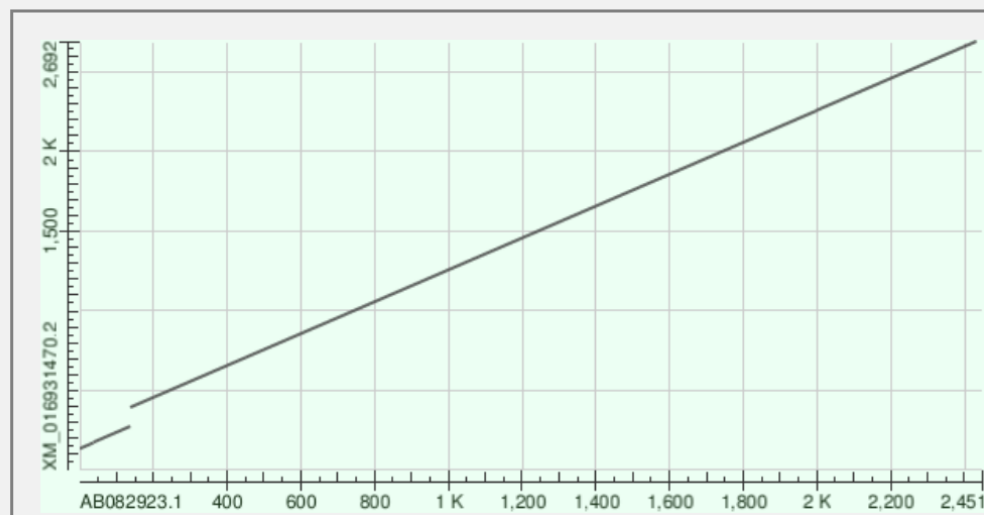
Descriptions

Graphic Summary

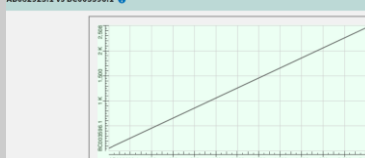
Alignments

Dot Plot

Plot of AB082923.1 vs XM_016931470.2 ?



Paralogues:

Description	Scientific Name	Query Cover	Per. ident	Accession	Explanation
Homo sapiens tumor protein p53 (TP53), transcript variant 3, mRNA	Homo sapiens	99%	99.93%	NM_001276696	<p>I sorted by Query cover then by percentage identity and it was the highest then I verified my results by downloading csv file and opening the table in excel and sorting it using excel function. I excluded the first 2 results as the 1st was the same gene with same accession number and the 2nd was a clone (BC003596.1) with dot plot</p>  <p>therefore I chose the 3rd highest one</p>

Plot of AB082923.1 vs NM_001276696.3 ?

