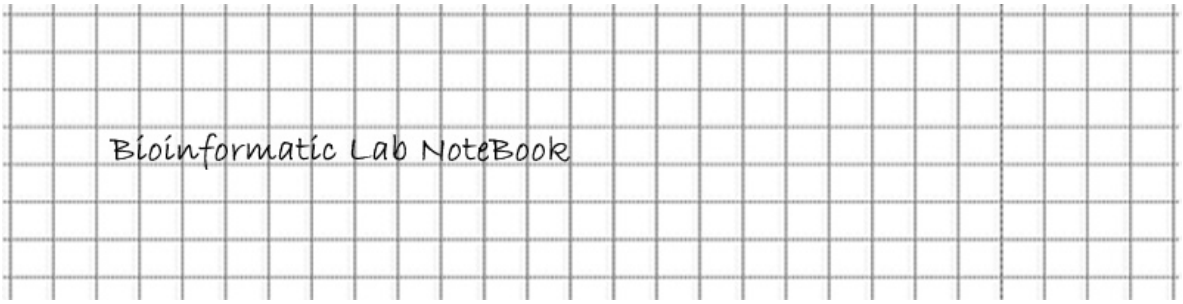

1: Find the most consistent translation of the cDNA. Paste here the 6 resulting reading frames, and select the consistent (√) / not consistent (√) frames.

Frame	**Resulting protein**	**√ / X**
1		
2		
3		
-1		
-2		
-3		

2 and 3: Find homologous genes in Mouse and get informations about its biological function in mouse. Copy the relevant informations.

		Consistent with a role in neurodegeneration?
Name of the homologous gene in *Mus musculus* and imatge of the 3D structure of the protein.		
Described functions of this gene.		
Expression pattern in *Mus musculus.*		

4) Write your conclusion:

	The human gene.....,
DATA	Is homologous to... / Expression patterns / Attributed functions.....
CONCEPTUAL FRAME / MODEL	**As...** □ Some genes are conserved between species through evolution. When they conserve both its structure (sequence patterns) and function, we call it homologous genes. □ Studying homologous genes in other animals can bring us information about these genes in humans. □ Gene function is coherent with its expression pattern. Genes with an expression pattern associated to neurologic tissues -brain, nerves- are more likely to play a specific role in neurodegeneration.
HYPOTHESIS (preliminary conclusion)	**So, we consider that the human gene.....** is a ☐ good / ☐ bad candidate to play a role in neurodegeneration.