Cell Biology Laboratory

**ER Transport Worksheet**

**ER TRANSPORT**

1. **From the (3of5) “DOG” pattern search, what was the last listed result’s length?**
2. **From the (3of5) “regulator of chromosome condensation” search, what was the length of the sequence matches?**

|  |  |  |  |
| --- | --- | --- | --- |
| **Match #1 Length** |  | **Match #2 Length** |  |

1. **Write the first six amino acids of your assigned ER protein (or copy/paste entire sequence here). Note: I use this information to match your protein to the right key.**
2. **What is the start position of the identified signal sequence? [first number in pos]**
3. **Use BLAST to determine the identity of your assigned protein and record the name of the first protein from the BLAST generated list (note: don’t forget “9606”)**
4. **Where in a cell should this protein be located?**
5. **Does your signal sequence data support or contradict the location of the protein?**
6. **What is the text pattern search algorithm that you created to search for ER export signals?**