**protein.html**

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**Purpose of the document:**

This document contains description and implementation of protein.html page. Each protein contains multiple proteoforms. Each proteoform contains multiple prsms.

**Description:**

**Protein.html** page shows a protein and its proteoforms. Protein data is retrieved from

toppic\_prsm\_cutoff/toppic\_proteoform\_cutoff/topmg\_prsm\_cutoff/topmg\_prsm\_cutoff 🡪 data\_js 🡪 proteins 🡪 protein(protein number).js

**Data:** proteins(protein number).js file contains the data in json format and is available globally in **prsm\_data** variable throughout protein.html page.

**Implementation:**

|  |
| --- |
| **$(document).ready(function(){}**   * **protein(folderpath) -------- (visual🡪js🡪protein🡪protein.js)**   **🡪 proteoformToHtml()-------- (visual🡪js🡪protein🡪protein.js)**  **🡪 getBestPrsm()-------- (visual🡪js🡪protein🡪protein.js)**  **🡪 buildSvg()-------- (visual🡪js🡪util 🡪drawSvg.js)**  **🡪 getSvgSize()-------- (visual🡪js🡪util 🡪drawSvg.js)**  **🡪 calibrateCoordinates()-------- (visual🡪js🡪util 🡪drawSvg.js)**  **🡪 skippedAcidNotification()-------- (visual🡪js🡪util 🡪drawSvg.js)**  **🡪 getNumValues() -------- (visual🡪js🡪util 🡪drawSvg.js)**  **🡪 drawAnnoOfStartEndPosition()-------- (visual🡪js🡪util 🡪drawSvg.js)**  **🡪 addColorToFixedPtms()-------- (visual🡪js🡪util 🡪drawSvg.js)**  **🡪 massShiftBackgroundColor()-------- (visual🡪js🡪util 🡪drawSvg.js)** |

1. **Navbar**

Navbar contains the links to navigate to multiple pages and logic is retrieved from navBar.js located in **visual** 🡪**js** 🡪**util** 🡪**navBar.js**

1. **Container**

Container contains four building blocks.

**2.1 allproteinurl\_1**

* Contains link to go back to proteins.html

**2.2 sequence\_description**

* Provides information about the protein along with number of proteoforms

**Flow:**

$(document).ready(function(){}

🡪protein(folderpath)

**2.3 proteoformcontainer**

* Contains all the proteoforms for the protein
* Provides information of best prsm and number of prsm for each proteoforms
* Contains SVG, visualization of the prsm sequence

**Flow:**

|  |
| --- |
| **$(document).ready(function(){}**   * **protein(folderpath) -------- (visual🡪js🡪protein🡪protein.js)**   **🡪 proteoformToHtml()-------- (visual🡪js🡪protein🡪protein.js)**  **🡪 getBestPrsm()-------- (visual🡪js🡪protein🡪protein.js)**  **🡪 buildSvg()-------- (visual🡪js🡪util 🡪drawSvg.js)**  **🡪 getSvgSize()-------- (visual🡪js🡪util 🡪drawSvg.js)**  **🡪 calibrateCoordinates()-------- (visual🡪js🡪util 🡪drawSvg.js)**  **🡪 skippedAcidNotification()-------- (visual🡪js🡪util 🡪drawSvg.js)**  **🡪 getNumValues() -------- (visual🡪js🡪util 🡪drawSvg.js)**  **🡪 drawAnnoOfStartEndPosition()-------- (visual🡪js🡪util 🡪drawSvg.js)**  **🡪 addColorToFixedPtms()-------- (visual🡪js🡪util 🡪drawSvg.js)**  **🡪 massShiftBackgroundColor()-------- (visual🡪js🡪util 🡪drawSvg.js)** |

**2.4 allproteinurl\_2**

* Contains link to go back to proteins.html

1. **Footer**

Footer contains the default static html with copyright information.