**Table S1. Differentially-dissected Domains/Fragments of VAPB and NS5A**

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| --- | --- | --- | --- | --- |
|  | **Construct** | **Cloning Vector** | **Residues** | **Purification** |
| **VAPB** | VAPB  | N-His-tagged (pET32a)  | 1-195 | Ni2+-affinity followed by FPLC  |
|  | Long VAPB-MSP  | N-His-tagged (pET32a)  | 1-150 | Ni2+-affinity followed by FPLC |
|  | VAPB-MSP | N-His-tagged (pET32a)  | 1-125 | Ni2+-affinity followed by FPLC |
|  | VAPB-CC  | N-His-tagged (pET32a)  | 151-195 | Ni2+-affinity followed by HPLC |
|  |  |  |  |  |
| **NS5A** | NS5A | N-His-tagged (pET32a)  | 33-445 | Ni2+-affinity followed by FPLC |
|  | NS5A-D1 | N-His-tagged (pET32a)  | 33-202 | Ni2+-affinity followed by FPLC |
|  | NS5A-D2-D3 | N-His-tagged (pET32a)  | 251-445 | very low expression level  |
|  | Long NS5A-D2 | N-His-tagged (pET32a)  | 251-380 | Ni2+-affinity followed by FPLC |
|  | NS5A-D2-D3 Loop | N-GST-tagged (pGEX-4T1) | 313-366 | Glutathione-affinity followed by HPLC |
|  | Long NS5A-D3 | C-His-tagged (pET28a)  | 300-445 | Ni2+-affinity followed by HPLC |
|  | NS5A-D3 | C-His-tagged (pET22b)  | 359-445 | Ni2+-affinity followed by HPLC |
|  | NS5A-D3A | C-His-tagged (pET22b)  | 394-445 | Ni2+-affinity followed by HPLC |
|  | NS5A-D3B | N-GST-tagged (pGEX-4T1) | 407-445 | Glutathione-affinity followed by HPLC |
|  | NS5A-D3C | N-GST-tagged (pGEX-4T1) | 427-445 | Glutathione-affinity followed by HPLC |