

Mystery ORF genes in Covid Vaccine

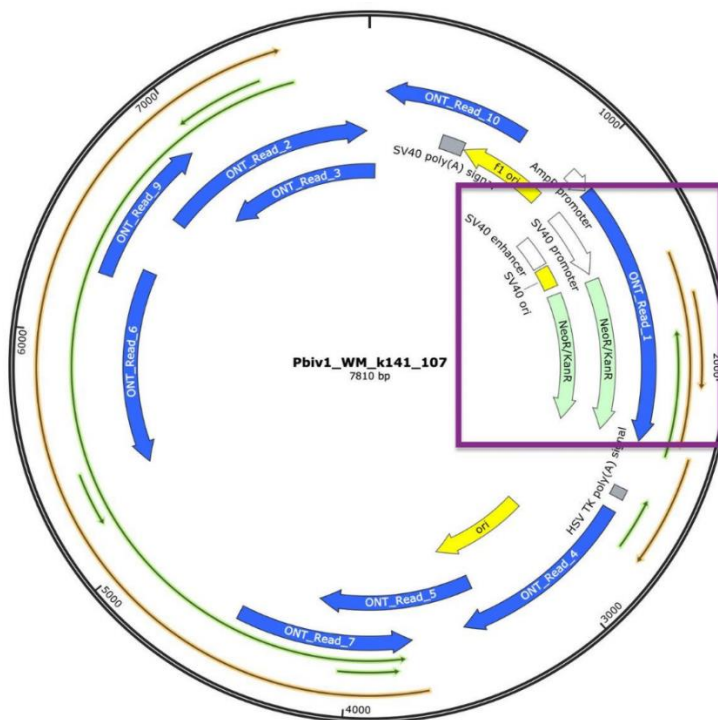
The following is taken from [Spider webs in the Pfizer closet - by Anandamide \(substack.com\)](#)

Pfizer failed to identify the 2nd largest ORF (Open Reading Frame) in the plasmid. This is the mystery ORF of 1252 amino acids described by [Beaudoin et al.](#) The protein sequence of the Mystery ORF is given below -

>Mystery_ORF_Under_Pfizer_Spike

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MQYQLESSCVVQFHALQHGLRIVLVELAAAATATTALQAATAAGHATQHDCDHHGDNQSGDKAQPDPVPGPLDVLLVLPQ
FLQVDQALVQILGHLVQPVDFLFDVHDAGIDSADIAQVHVGACVVLKVLVQFLFEAVQLGLQRVVHGIVHNADHDVAVAR
HEGVVGGDDLGLVEVPLCHEPMGAVGHEHAFSRKVGFAVVADGWSGGEILLLSGHICHVQKHHAVRGRLEAHQVVAL
AAKVHSLALAQHTLRHLGGGQIGRGSNLGGSDQLLGHVCLEALQSACDQSVDLHLGLRRVQSAQDIVQHRADGAELGGQ
LLDQGVQCLGIVVDHVLQLSQGACCAAQAVLDLADGAVELVGDQLLVLVQHILGHSDAVEPVGHLHSGKGLQSGACSKCP
AACDCAGQQGRCVLGDHLIGQQRRQHCQSVKLLGANQIPGGNVAQTIAILLDEAGVGGQCHFVEQQVLEAPLAGLARIGQ
NLAIEAAEVLDRRGLVDLLHLGEHLLGLVLFHGDPCQGSFQLGAEAAVLQQQVVGALGGIAADVHGAVHAGLGHGHRQ
DLCGHADGEVGGSDRVVGVGHAVLGAQRHCVGN DALAGHASGSPVALCLCLVAGADSSADGDVALVAIVHLGSDQT
AGSGLKHIAAGGVHPPCRCQLIGVNGHGHFVTHALVQHCHLIAGVARGDHRHSAEAARGDVQDFQCLGISNGVCGIG
DIPAKLLEWQELLVALCQHAGAGQAVEVEVHAFVLEIGAFRAAHCGRGMQQFEAQHHHSVGLVAHAVCGPKAVGLQ
WEVAVHACHAVTRLVAGLIDLGGDVPLEGLQIGLPEQPVPVIVVAADFGVQLVAVPGNHTAGEVVGQLVVVVGDVACLSR
GNLPHFVSPDHEAVGVHVCEAQVVQLGRGHAVALCEEGGEVQHGVVGHAIADPLPVPVGRGESGGIEHLVEGAQIG
DIGEPHDGFGGLHPEVAGLVDALFHGEGQLGALCLAQRIQSTIHGVGDGAVLVVLQQEGSRLQVAHIVSGGTSCPSAAAIA
RCQVASVQGGQCLKPGDVDADGQIHQGFQSREALRQIPAEVDRGVLAVDLEAVDVLKHELAQVLEVALLAFQVHQRERL
GHVLEGAVGAAVHPELAFHPALVVLVVDVQEGVVAELELAHFDDHVGGVVDQALGLAVQCGAEDPASDDVGLLG
AGKVHPVVEGQHGVVESLGAIGAGDGVPEPGHVAERQEQVLGRVQHAGSEHLVGVVHASGKAVGV
```

ORFs are painted in Green and Gold in the plasmid map below.



This large 1252 amino acid ORF was undisclosed and this violates FDA and WHO guidelines.

Using Uniprot to Identify What this ORF Does

What is the Mystery ORF in Green on the opposite strand of Spike? Why was this ORF never disclosed **despite the WHO and FDA regulation claiming all ORFs need to be identified**? This seems like a major omission as FDA can't claim this is of no consequence if regulations demand all ORFs be disclosed.

Ananthamide found that the Mystery ORF's closest hit is to a protein involved in silk.

Entry	Entry Name	Protein Names	Gene Names	Organism	Length
<input type="checkbox"/> G1Y380	G1Y380_9PROT	Major ampullate spidroin 1 MaSp1	AZA_01309	Nitrospirillum amazonense Y2	1,496 AA
<input type="checkbox"/> R7D986	R7D986_9ACTN	NAD-specific glutamate dehydrogenase	BN589_01054	Collinsella sp. CAG:289	634 AA
<input type="checkbox"/> G1Y2L3	G1Y2L3_9PROT	Fibroin heavy chain	AZA_89645	Nitrospirillum amazonense Y2	1,643 AA
<input type="checkbox"/> R6H005	R6H005_9FIRM	Uncharacterized protein	BN557_00863	Oscillibacter sp. CAG:241	1,534 AA
<input type="checkbox"/> A0A2V0NQ6	A0A2V0NQ6_9CHLO	Methyl-accepting transducer domain-containing protein	Rsub_00575	Raphidocelis subcapitata	1,229 AA
<input type="checkbox"/> A0A2U8WNG0	A0A2U8WNG0_9HYPH	Bacterial collagen-like protein middle domain-	DK419_15925	Methylobacterium terrae	922 AA

Other hits with lower E-values are to Collagen and Fibroin.

Ananthamide got no hits when he used blastP to search for this sequence in the NCBI database. It only showed up in UniProt.

I checked Uniprot to confirm Ananthamide's finding. I input the above sequence here - [Tool results | UniProt](#)

The top result was Spidroin as reported.

Entry	Entry Name	Protein Names	Gene Names	Organism	Length
<input type="checkbox"/> G1Y380	G1Y380_9PROT	Major ampullate spidroin 1 MaSp1	AZA_01309	Nitrospirillum amazonense Y2	1,496 AA
<input type="checkbox"/> A0A9P3NM55	A0A9P3NM55_9VIRI	Glycine-zipper-containing OmpA-like membrane domain-containing protein	CLOP_g7520	Closterium sp. NIES-67	829 AA
<input type="checkbox"/> A0A9P3NMW2	A0A9P3NMW2_9VIRI	Fibroin heavy chain-like	CLOP_g7520	Closterium sp. NIES-67	1,118 AA
<input type="checkbox"/> R7D986	R7D986_9ACTN	NAD-specific glutamate dehydrogenase	BN589_01054	Collinsella sp. CAG:289	634 AA
<input type="checkbox"/> G1Y2L3	G1Y2L3_9PROT	Fibroin heavy chain	AZA_89645	Nitrospirillum amazonense Y2	1,643 AA
<input type="checkbox"/> A0A2V0NQ6	A0A2V0NQ6_9CHLO	Methyl-accepting transducer domain-containing protein	Rsub_00575	Raphidocelis subcapitata	1,229 AA
<input type="checkbox"/> A0A2U8WNG0	A0A2U8WNG0_9HYPH	Bacterial collagen-like protein middle domain-	DK419_15925	Methylobacterium terrae	922 AA

Analysis of Mystery ORF Region Using AmyloGram Tool

[AmyloGram \(uni.wroc.pl\)](#) shows that this ORF sequence is amyloidogenic. If the cells lining blood vessels start manufacturing this amyloid, then the blood vessels will slowly fill with amyloid fibrils and the flow of blood will be gradually impeded.

Results (tabular) Detailed results

Copy CSV Excel Print

Input name	Amyloid probability	Is amyloid?
Mystery_ORF_Under_Pfizer_Spike	0.8508	yes

Showing 1 to 1 of 1 entries

Results (tabular) Detailed results

Amyloid residues

Residues are defined as belonging to the amyloid part of a protein, if their amyloid probability is higher than the cut-off

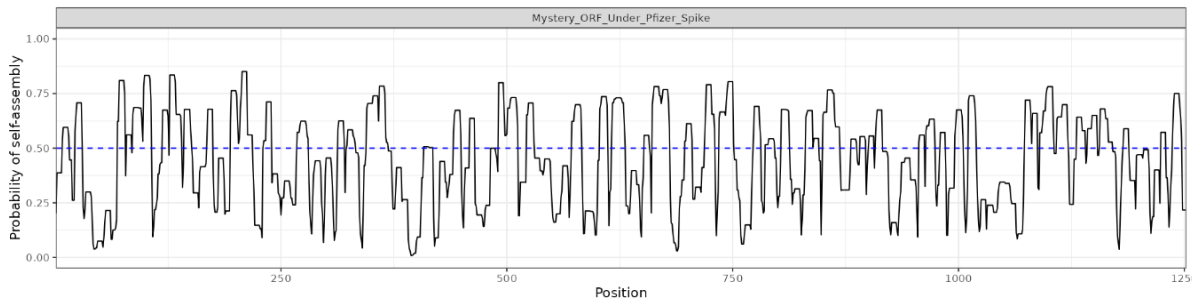
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Protein	Fraction of amyloid residues
Mystery_ORF_Under_Pfizer_Spike	0.4585

Showing 1 to 1 of 1 entries

Previous 1 Next

Amyloid regions



Analysis of Pfizer Spike Region Using AmyloGram Tool

Results (tabular) **Detailed results**

Copy CSV Excel Print

Input name Amyloid probability Is amyloid?

Pfizer_Spike	0.8627	yes
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Results (tabular) **Detailed results**

Amyloid residues

Residues are defined as belonging to the amyloid part of a protein, if their amyloid probability is higher than the cut-off

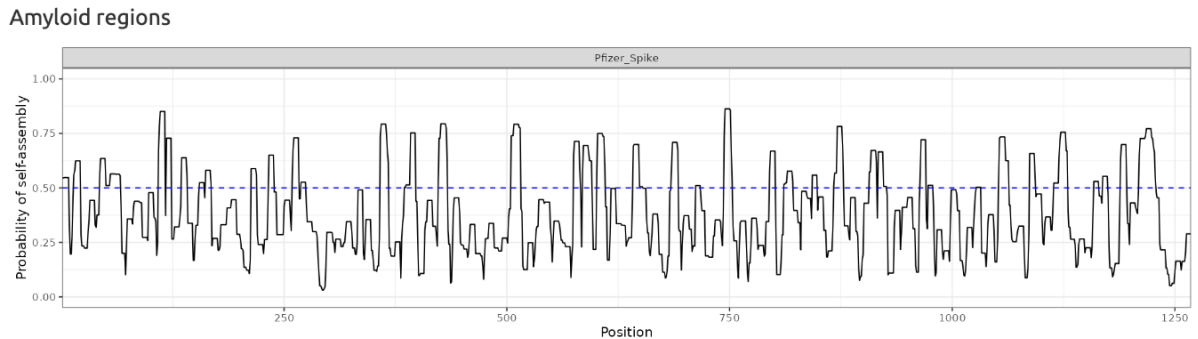
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Protein Fraction of amyloid residues

Pfizer_Spike	0.2815
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Showing 1 to 1 of 1 entries

Previous 1 Next



So BOTH the ORF sequence AND the SPIKE sequence will result in the production of amyloid. In other words – as surely as the vaccine RNA generates spike protein (its intended purpose), it will also generate amyloid (a hidden intended purpose?)

Independent research confirms that Spidroin generates amyloid

[Spider Silk Protein Forms Amyloid-Like Nanofibrils through a Non-Nucleation-Dependent Polymerization Mechanism - Qi - 2023 - Small - Wiley Online Library](#)

[Amyloidogenic nature of spider silk \(wiley.com\)](#)

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Spidroin N-terminal domain forms amyloid-like fibril based hydrogels and provides a protein immobilization platform

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Abstract

Recombinant spider silk proteins (spidroins) have multiple potential applications in development of novel biomaterials, but their multimodal and aggregation-prone nature have complicated production and straightforward applications. Here, we report that recombinant miniature spidroins, and importantly also the N-terminal domain (NT) on its own, rapidly form self-supporting and transparent hydrogels at 37 °C. The gelation is caused by NT α -helix to β -sheet conversion and formation of amyloid-like fibrils, and fusion proteins composed of NT and green fluorescent protein or purine nucleoside phosphorylase form hydrogels with intact functions of the fusion moieties. Our findings demonstrate that recombinant NT and fusion proteins give high expression yields and bestow attractive properties to hydrogels, e.g., transparency, cross-linker free gelation and straightforward immobilization of active proteins at high density.

Note that the spiridon sequence forms amyloid-like fibrils rapidly at 37 degrees Celsius. So it is highly amyloidogenic.

Conclusion

Given the deliberate undisclosed inclusion of an amyloid producing sequence, as well as the inclusion of the spike sequence that is also amyloidogenic, there is a distinct possibility that amyloid formation may be an intended effect of the Covid vaccine.