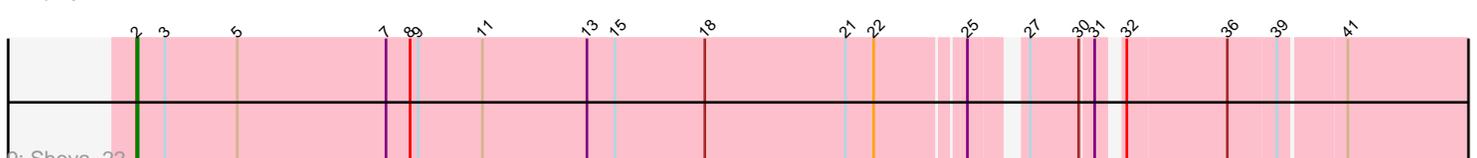
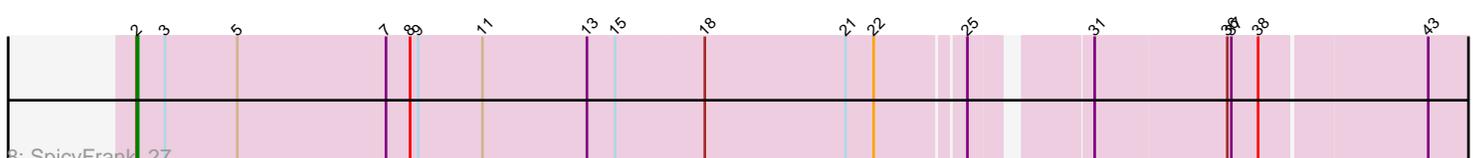
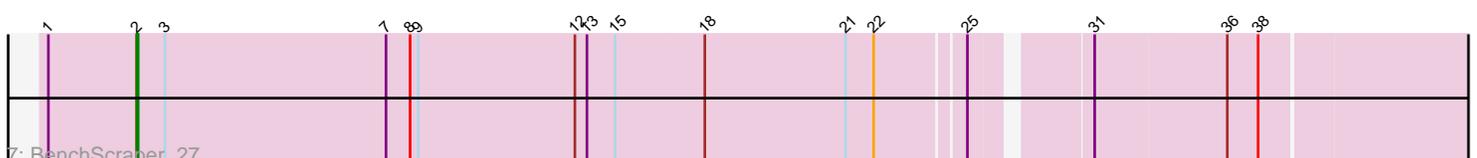
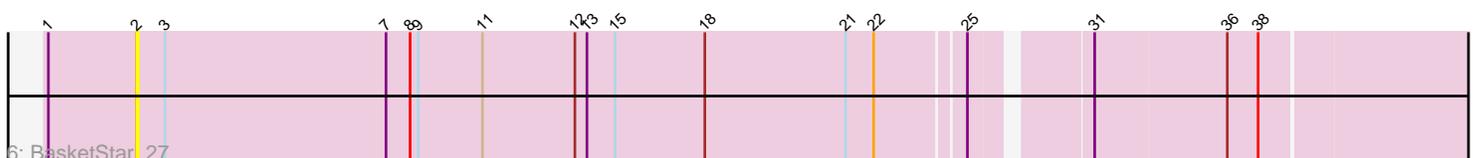
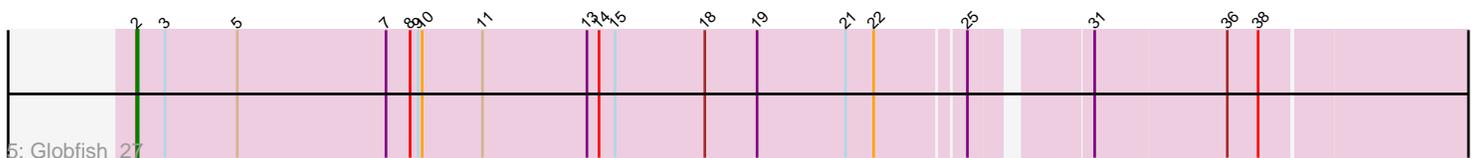
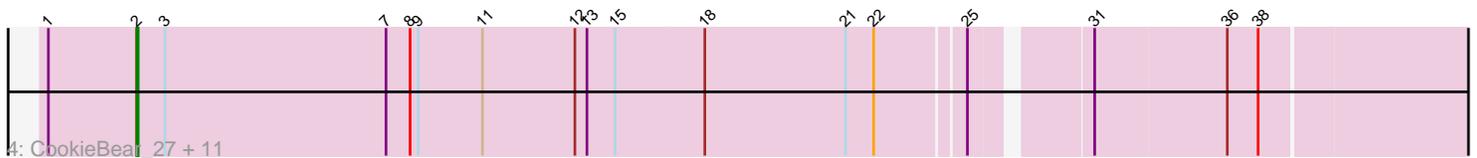
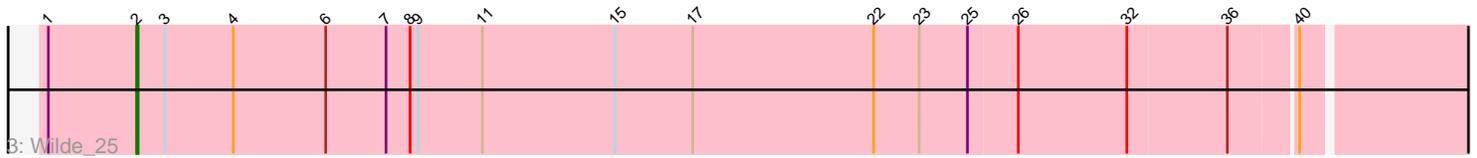
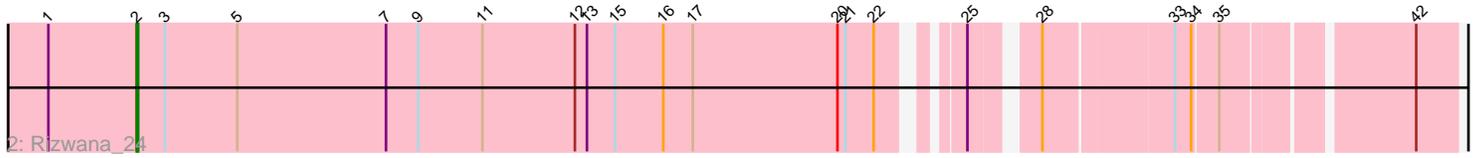
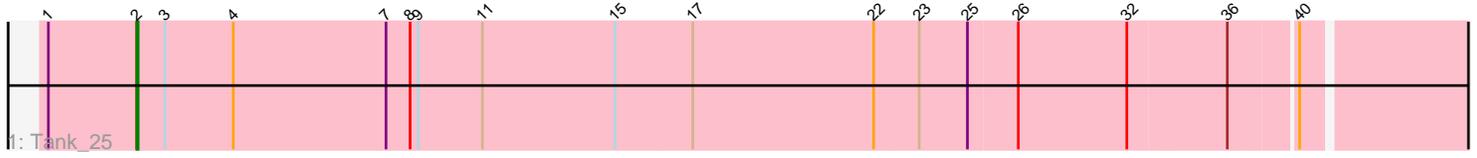


# Pham 284190



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 284190 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284190 has 21 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Tank\_25
- Track 2 : Rizwana\_24
- Track 3 : Wilde\_25
- Track 4 : CookieBear\_27, Hillester\_27, Aikyam\_27, RadFad\_27, MaterMagnus\_27, YoungHarleezy\_27, Lasker\_27, Richie\_27, BlueShadow\_27, MidnightRain\_27, Windest\_28, Auxilium\_27
- Track 5 : Globfish\_27
- Track 6 : BasketStar\_27
- Track 7 : BenchScraper\_27
- Track 8 : SpicyFrank\_27
- Track 9 : Shoya\_22
- Track 10 : Maja\_23

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 2, it was called in 18 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aikyam\_27, Auxilium\_27, BasketStar\_27, BenchScraper\_27, BlueShadow\_27, CookieBear\_27, Globfish\_27, Hillester\_27, Lasker\_27, Maja\_23, MaterMagnus\_27, MidnightRain\_27, RadFad\_27, Richie\_27, Rizwana\_24, Shoya\_22, SpicyFrank\_27, Tank\_25, Wilde\_25, Windest\_28, YoungHarleezy\_27,

Genes that have the "Most Annotated" start but do not call it:

- 

Genes that do not have the "Most Annotated" start:

- 

### **Summary by start number:**

Start 2:

- Found in 21 of 21 ( 100.0% ) of genes in pham

- Manual Annotations of this start: 18 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aikyam\_27 (AY), Auxilium\_27 (AY), BasketStar\_27 (AY), BenchScraper\_27 (AY), BlueShadow\_27 (AY), CookieBear\_27 (AY), Globfish\_27 (AY), Hillester\_27 (AY), Lasker\_27 (AY), Maja\_23 (FO), MaterMagnus\_27 (AY), MidnightRain\_27 (AY), RadFad\_27 (AY), Richie\_27 (AY), Rizwana\_24 (AP1), Shoya\_22 (FB), SpicyFrank\_27 (AY), Tank\_25 (AP1), Wilde\_25 (AP1), Windest\_28 (AY), YoungHarleezy\_27 (AY),

### **Summary by clusters:**

There are 4 clusters represented in this pham: AY, FB, AP1, FO,

Info for manual annotations of cluster AP1:

- Start number 2 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AY:

- Start number 2 was manually annotated 13 times for cluster AY.

Info for manual annotations of cluster FB:

- Start number 2 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FO:

- Start number 2 was manually annotated 1 time for cluster FO.

### **Gene Information:**

Gene: Aikyam\_27 Start: 19476, Stop: 20438, Start Num: 2

Candidate Starts for Aikyam\_27:

(1, 19410), (Start: 2 @19476 has 18 MA's), (3, 19497), (7, 19662), (8, 19680), (9, 19686), (11, 19734), (12, 19803), (13, 19812), (15, 19833), (18, 19899), (21, 20004), (22, 20025), (25, 20085), (31, 20160), (36, 20256), (38, 20277),

Gene: Auxilium\_27 Start: 19466, Stop: 20428, Start Num: 2

Candidate Starts for Auxilium\_27:

(1, 19400), (Start: 2 @19466 has 18 MA's), (3, 19487), (7, 19652), (8, 19670), (9, 19676), (11, 19724), (12, 19793), (13, 19802), (15, 19823), (18, 19889), (21, 19994), (22, 20015), (25, 20075), (31, 20150), (36, 20246), (38, 20267),

Gene: BasketStar\_27 Start: 19520, Stop: 20482, Start Num: 2

Candidate Starts for BasketStar\_27:

(1, 19454), (Start: 2 @19520 has 18 MA's), (3, 19541), (7, 19706), (8, 19724), (9, 19730), (11, 19778), (12, 19847), (13, 19856), (15, 19877), (18, 19943), (21, 20048), (22, 20069), (25, 20129), (31, 20204), (36, 20300), (38, 20321),

Gene: BenchScraper\_27 Start: 19481, Stop: 20443, Start Num: 2

Candidate Starts for BenchScraper\_27:

(1, 19415), (Start: 2 @19481 has 18 MA's), (3, 19502), (7, 19667), (8, 19685), (9, 19691), (12, 19808), (13, 19817), (15, 19838), (18, 19904), (21, 20009), (22, 20030), (25, 20090), (31, 20165), (36, 20261), (38, 20282),

Gene: BlueShadow\_27 Start: 19466, Stop: 20428, Start Num: 2

Candidate Starts for BlueShadow\_27:

(1, 19400), (Start: 2 @19466 has 18 MA's), (3, 19487), (7, 19652), (8, 19670), (9, 19676), (11, 19724), (12, 19793), (13, 19802), (15, 19823), (18, 19889), (21, 19994), (22, 20015), (25, 20075), (31, 20150), (36, 20246), (38, 20267),

Gene: CookieBear\_27 Start: 19466, Stop: 20428, Start Num: 2

Candidate Starts for CookieBear\_27:

(1, 19400), (Start: 2 @19466 has 18 MA's), (3, 19487), (7, 19652), (8, 19670), (9, 19676), (11, 19724), (12, 19793), (13, 19802), (15, 19823), (18, 19889), (21, 19994), (22, 20015), (25, 20075), (31, 20150), (36, 20246), (38, 20267),

Gene: Globfish\_27 Start: 19700, Stop: 20662, Start Num: 2

Candidate Starts for Globfish\_27:

(Start: 2 @19700 has 18 MA's), (3, 19721), (5, 19775), (7, 19886), (8, 19904), (9, 19910), (10, 19913), (11, 19958), (13, 20036), (14, 20045), (15, 20057), (18, 20123), (19, 20162), (21, 20228), (22, 20249), (25, 20309), (31, 20384), (36, 20480), (38, 20501),

Gene: Hillester\_27 Start: 19466, Stop: 20428, Start Num: 2

Candidate Starts for Hillester\_27:

(1, 19400), (Start: 2 @19466 has 18 MA's), (3, 19487), (7, 19652), (8, 19670), (9, 19676), (11, 19724), (12, 19793), (13, 19802), (15, 19823), (18, 19889), (21, 19994), (22, 20015), (25, 20075), (31, 20150), (36, 20246), (38, 20267),

Gene: Lasker\_27 Start: 19474, Stop: 20436, Start Num: 2

Candidate Starts for Lasker\_27:

(1, 19408), (Start: 2 @19474 has 18 MA's), (3, 19495), (7, 19660), (8, 19678), (9, 19684), (11, 19732), (12, 19801), (13, 19810), (15, 19831), (18, 19897), (21, 20002), (22, 20023), (25, 20083), (31, 20158), (36, 20254), (38, 20275),

Gene: Maja\_23 Start: 17865, Stop: 18857, Start Num: 2

Candidate Starts for Maja\_23:

(Start: 2 @17865 has 18 MA's), (3, 17886), (6, 18006), (7, 18051), (8, 18069), (9, 18075), (10, 18078), (11, 18123), (13, 18201), (15, 18222), (16, 18258), (18, 18288), (21, 18393), (22, 18414), (24, 18468), (27, 18516), (29, 18549), (41, 18753),

Gene: MaterMagnus\_27 Start: 19476, Stop: 20438, Start Num: 2

Candidate Starts for MaterMagnus\_27:

(1, 19410), (Start: 2 @19476 has 18 MA's), (3, 19497), (7, 19662), (8, 19680), (9, 19686), (11, 19734), (12, 19803), (13, 19812), (15, 19833), (18, 19899), (21, 20004), (22, 20025), (25, 20085), (31, 20160), (36, 20256), (38, 20277),

Gene: MidnightRain\_27 Start: 19465, Stop: 20427, Start Num: 2

Candidate Starts for MidnightRain\_27:

(1, 19399), (Start: 2 @19465 has 18 MA's), (3, 19486), (7, 19651), (8, 19669), (9, 19675), (11, 19723), (12, 19792), (13, 19801), (15, 19822), (18, 19888), (21, 19993), (22, 20014), (25, 20074), (31, 20149), (36, 20245), (38, 20266),

Gene: RadFad\_27 Start: 19466, Stop: 20428, Start Num: 2

Candidate Starts for RadFad\_27:

(1, 19400), (Start: 2 @19466 has 18 MA's), (3, 19487), (7, 19652), (8, 19670), (9, 19676), (11, 19724), (12, 19793), (13, 19802), (15, 19823), (18, 19889), (21, 19994), (22, 20015), (25, 20075), (31, 20150), (36, 20246), (38, 20267),

Gene: Richie\_27 Start: 19481, Stop: 20443, Start Num: 2

Candidate Starts for Richie\_27:

(1, 19415), (Start: 2 @19481 has 18 MA's), (3, 19502), (7, 19667), (8, 19685), (9, 19691), (11, 19739), (12, 19808), (13, 19817), (15, 19838), (18, 19904), (21, 20009), (22, 20030), (25, 20090), (31, 20165), (36, 20261), (38, 20282),

Gene: Rizwana\_24 Start: 17371, Stop: 18291, Start Num: 2

Candidate Starts for Rizwana\_24:

(1, 17305), (Start: 2 @17371 has 18 MA's), (3, 17392), (5, 17446), (7, 17557), (9, 17581), (11, 17629), (12, 17698), (13, 17707), (15, 17728), (16, 17764), (17, 17785), (20, 17893), (21, 17899), (22, 17920), (25, 17962), (28, 18001), (33, 18091), (34, 18103), (35, 18121), (42, 18247),

Gene: Shoya\_22 Start: 17058, Stop: 17999, Start Num: 2

Candidate Starts for Shoya\_22:

(Start: 2 @17058 has 18 MA's), (3, 17079), (5, 17133), (7, 17244), (8, 17262), (9, 17268), (11, 17316), (13, 17394), (15, 17415), (18, 17481), (21, 17586), (22, 17607), (25, 17667), (27, 17697), (30, 17733), (31, 17742), (32, 17754), (36, 17826), (39, 17859), (41, 17904),

Gene: SpicyFrank\_27 Start: 19701, Stop: 20663, Start Num: 2

Candidate Starts for SpicyFrank\_27:

(Start: 2 @19701 has 18 MA's), (3, 19722), (5, 19776), (7, 19887), (8, 19905), (9, 19911), (11, 19959), (13, 20037), (15, 20058), (18, 20124), (21, 20229), (22, 20250), (25, 20310), (31, 20385), (36, 20481), (37, 20484), (38, 20502), (43, 20619),

Gene: Tank\_25 Start: 17245, Stop: 18228, Start Num: 2

Candidate Starts for Tank\_25:

(1, 17179), (Start: 2 @17245 has 18 MA's), (3, 17266), (4, 17317), (7, 17431), (8, 17449), (9, 17455), (11, 17503), (15, 17602), (17, 17659), (22, 17794), (23, 17827), (25, 17863), (26, 17899), (32, 17980), (36, 18052), (40, 18097),

Gene: Wilde\_25 Start: 17174, Stop: 18157, Start Num: 2

Candidate Starts for Wilde\_25:

(1, 17108), (Start: 2 @17174 has 18 MA's), (3, 17195), (4, 17246), (6, 17315), (7, 17360), (8, 17378), (9, 17384), (11, 17432), (15, 17531), (17, 17588), (22, 17723), (23, 17756), (25, 17792), (26, 17828), (32, 17909), (36, 17981), (40, 18026),

Gene: Windest\_28 Start: 19531, Stop: 20493, Start Num: 2

Candidate Starts for Windest\_28:

(1, 19465), (Start: 2 @19531 has 18 MA's), (3, 19552), (7, 19717), (8, 19735), (9, 19741), (11, 19789), (12, 19858), (13, 19867), (15, 19888), (18, 19954), (21, 20059), (22, 20080), (25, 20140), (31, 20215), (36, 20311), (38, 20332),

Gene: YoungHarleezy\_27 Start: 19479, Stop: 20441, Start Num: 2

Candidate Starts for YoungHarleezy\_27:

(1, 19413), (Start: 2 @19479 has 18 MA's), (3, 19500), (7, 19665), (8, 19683), (9, 19689), (11, 19737), (12, 19806), (13, 19815), (15, 19836), (18, 19902), (21, 20007), (22, 20028), (25, 20088), (31, 20163), (36, 20259), (38, 20280),