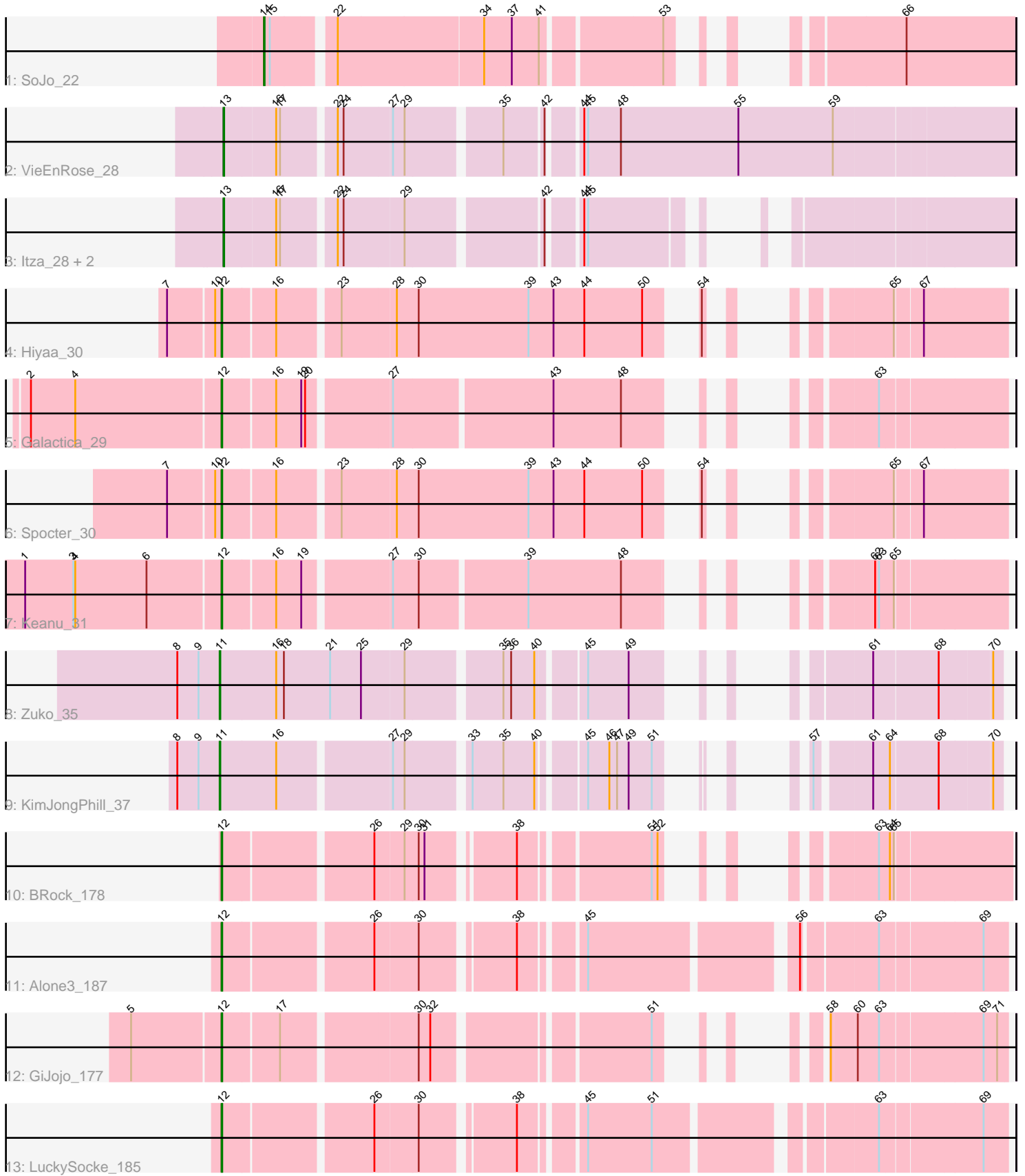


# Pham 194442



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 194442 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194442 has 15 members, 0 are drafts.

Phages represented in each track:

- Track 1 : SoJo\_22
- Track 2 : VieEnRose\_28
- Track 3 : Itza\_28, Urza\_28, Celia\_28
- Track 4 : Hiyaa\_30
- Track 5 : Galactica\_29
- Track 6 : Spocter\_30
- Track 7 : Keanu\_31
- Track 8 : Zuko\_35
- Track 9 : KimJongPhill\_37
- Track 10 : BRock\_178
- Track 11 : Alone3\_187
- Track 12 : GiJojo\_177
- Track 13 : LuckySocke\_185

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

The start number called the most often in the published annotations is 12, it was called in 8 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alone3\_187, BRock\_178, Galactica\_29, GiJojo\_177, Hiyaa\_30, Keanu\_31, LuckySocke\_185, Spocter\_30,

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

- 

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

- Celia\_28, Itza\_28, KimJongPhill\_37, SoJo\_22, Urza\_28, VieEnRose\_28, Zuko\_35,

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

Start 11:

- Found in 2 of 15 ( 13.3% ) of genes in pham
- Manual Annotations of this start: 2 of 15

- Called 100.0% of time when present
- Phage (with cluster) where this start called: KimJongPhill\_37 (BR), Zuko\_35 (BR),

Start 12:

- Found in 8 of 15 ( 53.3% ) of genes in pham
- Manual Annotations of this start: 8 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alone3\_187 (BS), BRock\_178 (BS), Galactica\_29 (BQ), GiJojo\_177 (BS), Hiyaa\_30 (BQ), Keanu\_31 (BQ), LuckySocke\_185 (BS), Spocter\_30 (BQ),

Start 13:

- Found in 4 of 15 ( 26.7% ) of genes in pham
- Manual Annotations of this start: 4 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Celia\_28 (BD6), Itza\_28 (BD6), Urza\_28 (BD6), VieEnRose\_28 (BD6),

Start 14:

- Found in 1 of 15 ( 6.7% ) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SoJo\_22 (BC1),

### **Summary by clusters:**

There are 5 clusters represented in this pham: BD6, BC1, BQ, BR, BS,

Info for manual annotations of cluster BC1:

- Start number 14 was manually annotated 1 time for cluster BC1.

Info for manual annotations of cluster BD6:

- Start number 13 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster BQ:

- Start number 12 was manually annotated 4 times for cluster BQ.

Info for manual annotations of cluster BR:

- Start number 11 was manually annotated 2 times for cluster BR.

Info for manual annotations of cluster BS:

- Start number 12 was manually annotated 4 times for cluster BS.

### **Gene Information:**

Gene: Alone3\_187 Start: 95865, Stop: 96938, Start Num: 12

Candidate Starts for Alone3\_187:

(Start: 12 @95865 has 8 MA's), (26, 96081), (30, 96144), (38, 96273), (45, 96357), (56, 96648), (63, 96753), (69, 96903),

Gene: BRock\_178 Start: 91256, Stop: 92188, Start Num: 12

Candidate Starts for BRock\_178:

(Start: 12 @91256 has 8 MA's), (26, 91472), (29, 91514), (30, 91535), (31, 91544), (38, 91661), (51, 91844), (52, 91853), (63, 91994), (64, 92009), (65, 92015),

Gene: Celia\_28 Start: 21987, Stop: 22973, Start Num: 13

Candidate Starts for Celia\_28:

(Start: 13 @21987 has 4 MA's), (16, 22065), (17, 22071), (22, 22146), (24, 22155), (29, 22245), (42, 22437), (44, 22479), (45, 22485),

Gene: Galactica\_29 Start: 23278, Stop: 24240, Start Num: 12

Candidate Starts for Galactica\_29:

(2, 22987), (4, 23056), (Start: 12 @23278 has 8 MA's), (16, 23356), (19, 23395), (20, 23401), (27, 23518), (43, 23755), (48, 23860), (63, 24055),

Gene: GiJojo\_177 Start: 95573, Stop: 96496, Start Num: 12

Candidate Starts for GiJojo\_177:

(5, 95438), (Start: 12 @95573 has 8 MA's), (17, 95657), (30, 95852), (32, 95870), (51, 96170), (58, 96242), (60, 96278), (63, 96311), (69, 96461), (71, 96482),

Gene: Hiyaa\_30 Start: 24308, Stop: 25282, Start Num: 12

Candidate Starts for Hiyaa\_30:

(7, 24230), (10, 24299), (Start: 12 @24308 has 8 MA's), (16, 24386), (23, 24473), (28, 24554), (30, 24587), (39, 24758), (43, 24797), (44, 24845), (50, 24935), (54, 24971), (65, 25118), (67, 25157),

Gene: Itza\_28 Start: 21901, Stop: 22887, Start Num: 13

Candidate Starts for Itza\_28:

(Start: 13 @21901 has 4 MA's), (16, 21979), (17, 21985), (22, 22060), (24, 22069), (29, 22159), (42, 22351), (44, 22393), (45, 22399),

Gene: Keanu\_31 Start: 24375, Stop: 25334, Start Num: 12

Candidate Starts for Keanu\_31:

(1, 24078), (3, 24153), (4, 24156), (6, 24267), (Start: 12 @24375 has 8 MA's), (16, 24453), (19, 24492), (27, 24615), (30, 24654), (39, 24813), (48, 24957), (62, 25143), (63, 25149), (65, 25170),

Gene: KimJongPhill\_37 Start: 33176, Stop: 32256, Start Num: 11

Candidate Starts for KimJongPhill\_37:

(8, 33242), (9, 33209), (Start: 11 @33176 has 2 MA's), (16, 33089), (27, 32927), (29, 32909), (33, 32822), (35, 32774), (40, 32726), (45, 32666), (46, 32633), (47, 32621), (49, 32603), (51, 32567), (57, 32516), (61, 32441), (64, 32417), (68, 32345), (70, 32270),

Gene: LuckySocke\_185 Start: 94376, Stop: 95449, Start Num: 12

Candidate Starts for LuckySocke\_185:

(Start: 12 @94376 has 8 MA's), (26, 94592), (30, 94655), (38, 94784), (45, 94868), (51, 94967), (63, 95264), (69, 95414),

Gene: SoJo\_22 Start: 18310, Stop: 19248, Start Num: 14

Candidate Starts for SoJo\_22:

(Start: 14 @18310 has 1 MA's), (15, 18319), (22, 18403), (34, 18625), (37, 18667), (41, 18709), (53, 18880), (66, 19081),

Gene: Spocter\_30 Start: 24296, Stop: 25270, Start Num: 12

Candidate Starts for Spocter\_30:

(7, 24218), (10, 24287), (Start: 12 @24296 has 8 MA's), (16, 24374), (23, 24461), (28, 24542), (30, 24575), (39, 24746), (43, 24785), (44, 24833), (50, 24923), (54, 24959), (65, 25106), (67, 25145),

Gene: Urza\_28 Start: 21922, Stop: 22908, Start Num: 13

Candidate Starts for Urza\_28:

(Start: 13 @21922 has 4 MA's), (16, 22000), (17, 22006), (22, 22081), (24, 22090), (29, 22180), (42, 22372), (44, 22414), (45, 22420),

Gene: VieEnRose\_28 Start: 21828, Stop: 22976, Start Num: 13

Candidate Starts for VieEnRose\_28:

(Start: 13 @21828 has 4 MA's), (16, 21906), (17, 21912), (22, 21987), (24, 21996), (27, 22068), (29, 22086), (35, 22221), (42, 22278), (44, 22320), (45, 22326), (48, 22377), (55, 22560), (59, 22707),

Gene: Zuko\_35 Start: 31679, Stop: 30726, Start Num: 11

Candidate Starts for Zuko\_35:

(8, 31745), (9, 31712), (Start: 11 @31679 has 2 MA's), (16, 31592), (18, 31580), (21, 31508), (25, 31460), (29, 31397), (35, 31262), (36, 31250), (40, 31214), (45, 31151), (49, 31088), (61, 30911), (68, 30815), (70, 30740),