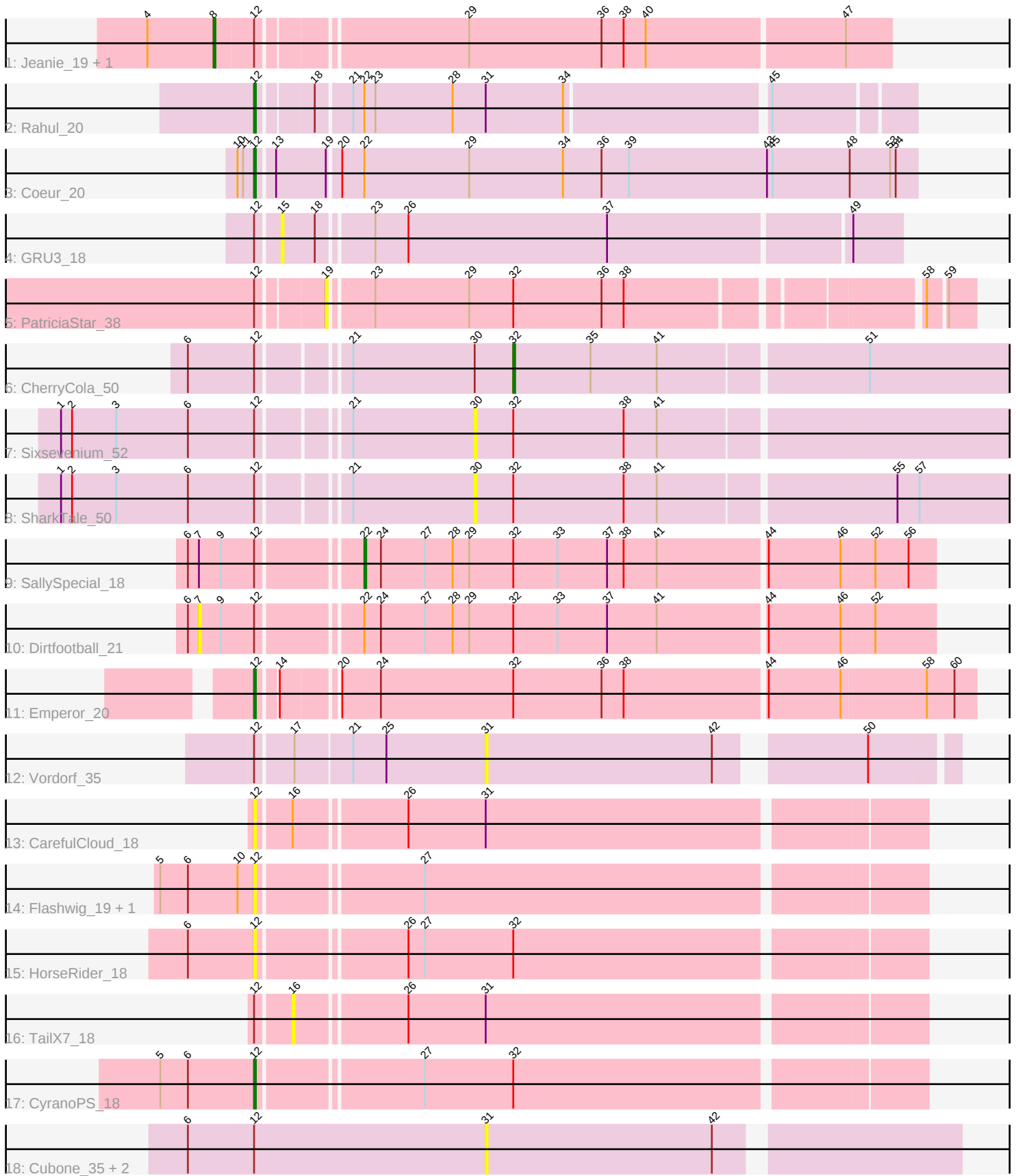


Pham 331231



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 331231 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331231 has 22 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Jeanie_19, McGonagall_19
- Track 2 : Rahul_20
- Track 3 : Coeur_20
- Track 4 : GRU3_18
- Track 5 : PatriciaStar_38
- Track 6 : CherryCola_50
- Track 7 : Sixsevenium_52
- Track 8 : SharkTale_50
- Track 9 : SallySpecial_18
- Track 10 : Dirtfootball_21
- Track 11 : Emperor_20
- Track 12 : Vordorf_35
- Track 13 : CarefulCloud_18
- Track 14 : Flashwig_19, Jalloh_18
- Track 15 : HorseRider_18
- Track 16 : TailX7_18
- Track 17 : CyranoPS_18
- Track 18 : Cubone_35, Scitech_32, Tessdabest_36

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 4 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CarefulCloud_18, Coeur_20, CyranoPS_18, Emperor_20, Flashwig_19, HorseRider_18, Jalloh_18, Rahul_20,

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

- CherryCola_50, Cubone_35, Dirtfootball_21, GRU3_18, Jeanie_19, McGonagall_19, PatriciaStar_38, SallySpecial_18, Scitech_32, SharkTale_50, Sixsevenium_52, TailX7_18, Tessdabest_36, Vordorf_35,

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

-

Summary by start number:

Start 7:

- Found in 2 of 22 (9.1%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Dirtfootball_21 (DM),

Start 8:

- Found in 2 of 22 (9.1%) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jeanie_19 (CW1), McGonagall_19 (CW1),

Start 12:

- Found in 22 of 22 (100.0%) of genes in pham
- Manual Annotations of this start: 4 of 8
- Called 36.4% of time when present
- Phage (with cluster) where this start called: CarefulCloud_18 (ER), Coeur_20 (CW2), CyranoPS_18 (ER), Emperor_20 (DM), Flashwig_19 (ER), HorseRider_18 (ER), Jalloh_18 (ER), Rahul_20 (CW2),

Start 15:

- Found in 1 of 22 (4.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GRU3_18 (CW2),

Start 16:

- Found in 2 of 22 (9.1%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: TailX7_18 (ER),

Start 19:

- Found in 2 of 22 (9.1%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: PatriciaStar_38 (DB),

Start 22:

- Found in 4 of 22 (18.2%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 25.0% of time when present
- Phage (with cluster) where this start called: SallySpecial_18 (DM),

Start 30:

- Found in 3 of 22 (13.6%) of genes in pham
- No Manual Annotations of this start.
- Called 66.7% of time when present

- Phage (with cluster) where this start called: SharkTale_50 (DC1), Sixsevenium_52 (DC1),

Start 31:

- Found in 7 of 22 (31.8%) of genes in pham
- No Manual Annotations of this start.
- Called 57.1% of time when present
- Phage (with cluster) where this start called: Cubone_35 (N), Scitech_32 (N), Tessdabest_36 (N), Vordorf_35 (DT),

Start 32:

- Found in 9 of 22 (40.9%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 11.1% of time when present
- Phage (with cluster) where this start called: CherryCola_50 (DC1),

Summary by clusters:

There are 8 clusters represented in this pham: DM, CW1, CW2, DB, N, DT, ER, DC1,

Info for manual annotations of cluster CW1:

- Start number 8 was manually annotated 2 times for cluster CW1.

Info for manual annotations of cluster CW2:

- Start number 12 was manually annotated 2 times for cluster CW2.

Info for manual annotations of cluster DC1:

- Start number 32 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DM:

- Start number 12 was manually annotated 1 time for cluster DM.
- Start number 22 was manually annotated 1 time for cluster DM.

Info for manual annotations of cluster ER:

- Start number 12 was manually annotated 1 time for cluster ER.

Gene Information:

Gene: CarefulCloud_18 Start: 12700, Stop: 12353, Start Num: 12

Candidate Starts for CarefulCloud_18:

(Start: 12 @12700 has 4 MA's), (16, 12682), (26, 12625), (31, 12583),

Gene: CherryCola_50 Start: 40592, Stop: 40308, Start Num: 32

Candidate Starts for CherryCola_50:

(6, 40757), (Start: 12 @40721 has 4 MA's), (21, 40679), (30, 40613), (Start: 32 @40592 has 1 MA's), (35, 40550), (41, 40514), (51, 40406),

Gene: Coeur_20 Start: 14347, Stop: 13994, Start Num: 12

Candidate Starts for Coeur_20:

(10, 14356), (11, 14353), (Start: 12 @14347 has 4 MA's), (13, 14338), (19, 14311), (20, 14305), (Start: 22 @14293 has 1 MA's), (29, 14236), (34, 14185), (36, 14164), (39, 14149), (43, 14074), (45, 14071), (48, 14029), (53, 14008), (54, 14005),

Gene: Cubone_35 Start: 27682, Stop: 27437, Start Num: 31

Candidate Starts for Cubone_35:

(6, 27844), (Start: 12 @27808 has 4 MA's), (31, 27682), (42, 27559),

Gene: CyranoPS_18 Start: 12709, Stop: 12362, Start Num: 12

Candidate Starts for CyranoPS_18:

(5, 12760), (6, 12745), (Start: 12 @12709 has 4 MA's), (27, 12625), (Start: 32 @12577 has 1 MA's),

Gene: Dirtfootball_21 Start: 14352, Stop: 13966, Start Num: 7

Candidate Starts for Dirtfootball_21:

(6, 14358), (7, 14352), (9, 14340), (Start: 12 @14322 has 4 MA's), (Start: 22 @14271 has 1 MA's), (24, 14262), (27, 14238), (28, 14223), (29, 14214), (Start: 32 @14190 has 1 MA's), (33, 14166), (37, 14139), (41, 14112), (44, 14055), (46, 14016), (52, 13998),

Gene: Emperor_20 Start: 14847, Stop: 14473, Start Num: 12

Candidate Starts for Emperor_20:

(Start: 12 @14847 has 4 MA's), (14, 14838), (20, 14811), (24, 14790), (Start: 32 @14718 has 1 MA's), (36, 14670), (38, 14658), (44, 14583), (46, 14544), (58, 14499), (60, 14484),

Gene: Flashwig_19 Start: 13296, Stop: 12949, Start Num: 12

Candidate Starts for Flashwig_19:

(5, 13347), (6, 13332), (10, 13305), (Start: 12 @13296 has 4 MA's), (27, 13212),

Gene: GRU3_18 Start: 14485, Stop: 14162, Start Num: 15

Candidate Starts for GRU3_18:

(Start: 12 @14497 has 4 MA's), (15, 14485), (18, 14467), (23, 14440), (26, 14422), (37, 14314), (49, 14188),

Gene: HorseRider_18 Start: 12756, Stop: 12409, Start Num: 12

Candidate Starts for HorseRider_18:

(6, 12792), (Start: 12 @12756 has 4 MA's), (26, 12681), (27, 12672), (Start: 32 @12624 has 1 MA's),

Gene: Jalloh_18 Start: 12552, Stop: 12205, Start Num: 12

Candidate Starts for Jalloh_18:

(5, 12603), (6, 12588), (10, 12561), (Start: 12 @12552 has 4 MA's), (27, 12468),

Gene: Jeanie_19 Start: 13938, Stop: 13588, Start Num: 8

Candidate Starts for Jeanie_19:

(4, 13974), (Start: 8 @13938 has 2 MA's), (Start: 12 @13917 has 4 MA's), (29, 13812), (36, 13740), (38, 13728), (40, 13716), (47, 13611),

Gene: McGonagall_19 Start: 13938, Stop: 13588, Start Num: 8

Candidate Starts for McGonagall_19:

(4, 13974), (Start: 8 @13938 has 2 MA's), (Start: 12 @13917 has 4 MA's), (29, 13812), (36, 13740), (38, 13728), (40, 13716), (47, 13611),

Gene: PatriciaStar_38 Start: 32187, Stop: 31864, Start Num: 19

Candidate Starts for PatriciaStar_38:

(Start: 12 @32220 has 4 MA's), (19, 32187), (23, 32166), (29, 32115), (Start: 32 @32091 has 1 MA's), (36, 32043), (38, 32031), (58, 31887), (59, 31878),

Gene: Rahul_20 Start: 14354, Stop: 14019, Start Num: 12

Candidate Starts for Rahul_20:

(Start: 12 @14354 has 4 MA's), (18, 14327), (21, 14309), (Start: 22 @14303 has 1 MA's), (23, 14297), (28, 14255), (31, 14237), (34, 14195), (45, 14090),

Gene: SallySpecial_18 Start: 14300, Stop: 13995, Start Num: 22

Candidate Starts for SallySpecial_18:

(6, 14387), (7, 14381), (9, 14369), (Start: 12 @14351 has 4 MA's), (Start: 22 @14300 has 1 MA's), (24, 14291), (27, 14267), (28, 14252), (29, 14243), (Start: 32 @14219 has 1 MA's), (33, 14195), (37, 14168), (38, 14159), (41, 14141), (44, 14084), (46, 14045), (52, 14027), (56, 14009),

Gene: Scitech_32 Start: 26837, Stop: 26592, Start Num: 31

Candidate Starts for Scitech_32:

(6, 26999), (Start: 12 @26963 has 4 MA's), (31, 26837), (42, 26714),

Gene: SharkTale_50 Start: 40799, Stop: 40494, Start Num: 30

Candidate Starts for SharkTale_50:

(1, 41012), (2, 41006), (3, 40982), (6, 40943), (Start: 12 @40907 has 4 MA's), (21, 40865), (30, 40799), (Start: 32 @40778 has 1 MA's), (38, 40718), (41, 40700), (55, 40577), (57, 40565),

Gene: Sixsevenium_52 Start: 40210, Stop: 39905, Start Num: 30

Candidate Starts for Sixsevenium_52:

(1, 40423), (2, 40417), (3, 40393), (6, 40354), (Start: 12 @40318 has 4 MA's), (21, 40276), (30, 40210), (Start: 32 @40189 has 1 MA's), (38, 40129), (41, 40111),

Gene: TailX7_18 Start: 12830, Stop: 12501, Start Num: 16

Candidate Starts for TailX7_18:

(Start: 12 @12848 has 4 MA's), (16, 12830), (26, 12773), (31, 12731),

Gene: Tessdabest_36 Start: 28986, Stop: 28741, Start Num: 31

Candidate Starts for Tessdabest_36:

(6, 29148), (Start: 12 @29112 has 4 MA's), (31, 28986), (42, 28863),

Gene: Vordorf_35 Start: 30060, Stop: 29824, Start Num: 31

Candidate Starts for Vordorf_35:

(Start: 12 @30180 has 4 MA's), (17, 30162), (21, 30132), (25, 30114), (31, 30060), (42, 29937), (50, 29868),