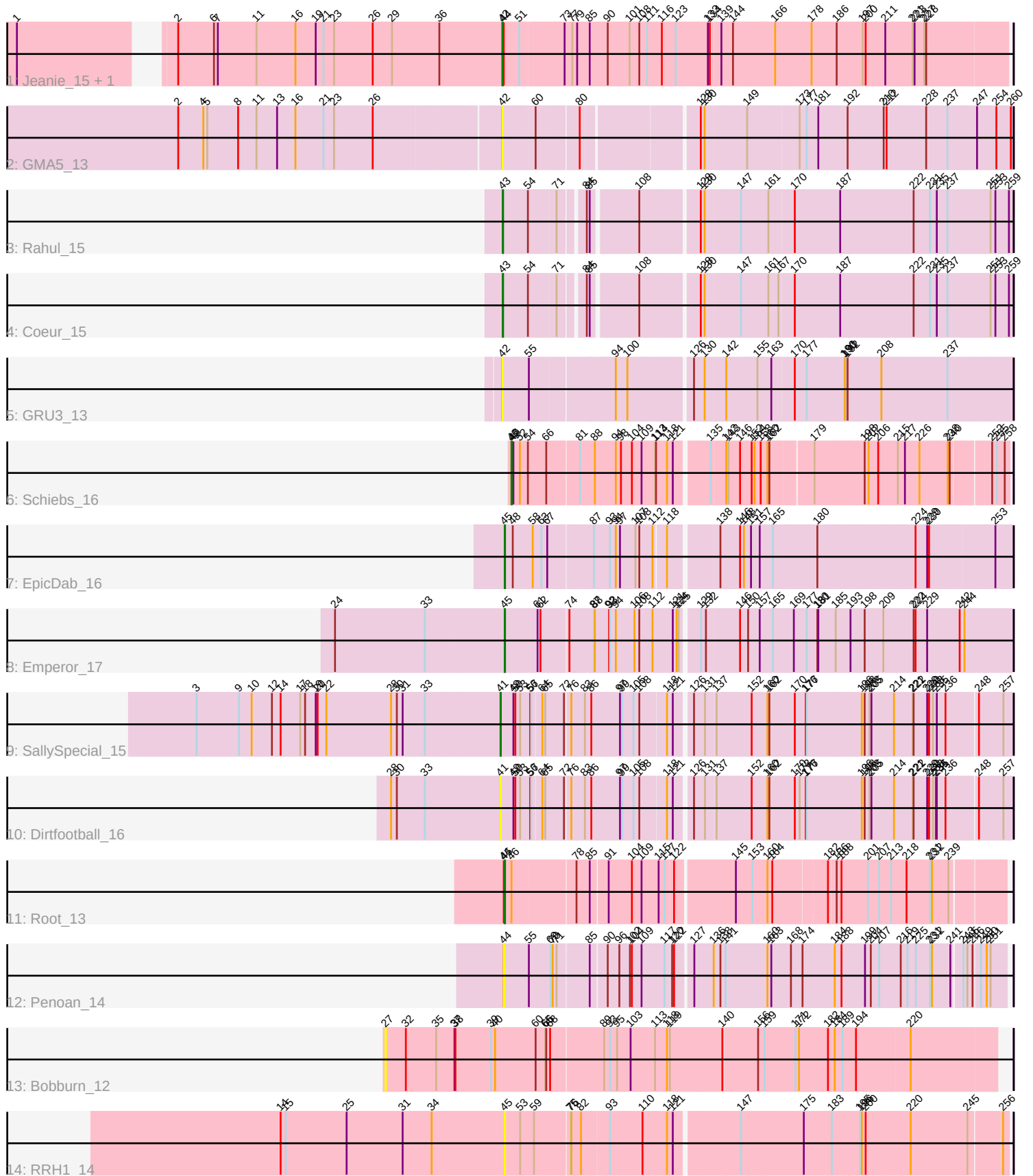


Pham 309493



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 309493 Report

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

Pham number 309493 has 15 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Jeanie_15, McGonagall_15
- Track 2 : GMA5_13
- Track 3 : Rahul_15
- Track 4 : Coeur_15
- Track 5 : GRU3_13
- Track 6 : Schiebs_16
- Track 7 : EpicDab_16
- Track 8 : Emperor_17
- Track 9 : SallySpecial_15
- Track 10 : Dirtfootball_16
- Track 11 : Root_13
- Track 12 : Penoan_14
- Track 13 : Bobburn_12
- Track 14 : RRH1_14

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

The start number called the most often in the published annotations is 45, it was called in 3 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Emperor_17, EpicDab_16, RRH1_14, Root_13,

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

-

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

- Bobburn_12, Coeur_15, Dirtfootball_16, GMA5_13, GRU3_13, Jeanie_15, McGonagall_15, Penoan_14, Rahul_15, SallySpecial_15, Schiebs_16,

Summary by start number:

Start 27:

- Found in 1 of 15 (6.7%) of genes in pham

- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bobburn_12 (singleton),

Start 41:

- Found in 2 of 15 (13.3%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dirtfootball_16 (DM), SallySpecial_15 (DM),

Start 42:

- Found in 4 of 15 (26.7%) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA5_13 (CW2), GRU3_13 (CW2), Jeanie_15 (CW1), McGonagall_15 (CW1),

Start 43:

- Found in 2 of 15 (13.3%) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Coeur_15 (CW2), Rahul_15 (CW2),

Start 44:

- Found in 4 of 15 (26.7%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Penoan_14 (UNK),

Start 45:

- Found in 4 of 15 (26.7%) of genes in pham
- Manual Annotations of this start: 3 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Emperor_17 (DM), EpicDab_16 (DM), RRH1_14 (singleton), Root_13 (JC),

Start 46:

- Found in 2 of 15 (13.3%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Schiebs_16 (CW3),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, DM, CW1, CW3, CW2, UNK, JC,

Info for manual annotations of cluster CW1:

- Start number 42 was manually annotated 2 times for cluster CW1.

Info for manual annotations of cluster CW2:

- Start number 43 was manually annotated 2 times for cluster CW2.

Info for manual annotations of cluster CW3:

- Start number 46 was manually annotated 1 time for cluster CW3.

Info for manual annotations of cluster DM:

- Start number 41 was manually annotated 1 time for cluster DM.
- Start number 45 was manually annotated 2 times for cluster DM.

Info for manual annotations of cluster JC:

- Start number 45 was manually annotated 1 time for cluster JC.

Gene Information:

Gene: Bobburn_12 Start: 8411, Stop: 10240, Start Num: 27

Candidate Starts for Bobburn_12:

(27, 8411), (32, 8474), (35, 8567), (37, 8624), (38, 8627), (39, 8735), (40, 8747), (60, 8873), (65, 8903), (66, 8906), (68, 8915), (89, 9068), (93, 9086), (95, 9107), (103, 9149), (113, 9224), (118, 9260), (119, 9269), (140, 9428), (156, 9527), (159, 9545), (171, 9641), (172, 9650), (182, 9740), (184, 9761), (189, 9785), (194, 9827), (220, 9989),

Gene: Coeur_15 Start: 9872, Stop: 11275, Start Num: 43

Candidate Starts for Coeur_15:

(Start: 43 @9872 has 2 MA's), (54, 9947), (71, 10028), (84, 10091), (85, 10100), (108, 10223), (128, 10385), (130, 10397), (147, 10499), (161, 10568), (167, 10595), (170, 10640), (187, 10778), (222, 10988), (231, 11039), (235, 11060), (237, 11093), (251, 11213), (253, 11228), (259, 11267),

Gene: Dirtfootball_16 Start: 10025, Stop: 11461, Start Num: 41

Candidate Starts for Dirtfootball_16:

(28, 9692), (30, 9710), (33, 9797), (Start: 41 @10025 has 1 MA's), (49, 10064), (50, 10070), (53, 10085), (56, 10112), (57, 10115), (64, 10139), (65, 10148), (72, 10199), (76, 10214), (83, 10253), (86, 10268), (97, 10346), (99, 10352), (105, 10385), (108, 10403), (118, 10481), (121, 10496), (126, 10538), (131, 10571), (137, 10601), (152, 10703), (160, 10748), (162, 10754), (170, 10829), (173, 10844), (176, 10859), (177, 10862), (196, 11021), (198, 11030), (203, 11045), (205, 11051), (214, 11120), (221, 11174), (222, 11177), (229, 11219), (230, 11225), (233, 11237), (234, 11246), (235, 11249), (236, 11276), (248, 11363), (257, 11438),

Gene: Emperor_17 Start: 10941, Stop: 12392, Start Num: 45

Candidate Starts for Emperor_17:

(24, 10425), (33, 10704), (Start: 45 @10941 has 3 MA's), (61, 11037), (62, 11043), (74, 11118), (87, 11187), (88, 11190), (92, 11229), (93, 11232), (94, 11247), (106, 11301), (108, 11316), (112, 11352), (121, 11412), (124, 11424), (125, 11430), (129, 11475), (132, 11490), (146, 11586), (150, 11610), (157, 11646), (165, 11682), (169, 11745), (177, 11781), (180, 11814), (181, 11817), (185, 11868), (193, 11913), (198, 11955), (209, 12012), (222, 12105), (224, 12111), (229, 12147), (242, 12246), (244, 12255),

Gene: EpicDab_16 Start: 10864, Stop: 12300, Start Num: 45

Candidate Starts for EpicDab_16:

(Start: 45 @10864 has 3 MA's), (48, 10885), (58, 10942), (63, 10966), (67, 10984), (87, 11107), (93, 11152), (94, 11167), (97, 11176), (107, 11224), (108, 11236), (112, 11272), (118, 11305), (138, 11437), (146, 11494), (148, 11506), (151, 11527), (157, 11554), (165, 11587), (180, 11719), (224,

12016), (229, 12052), (230, 12058), (253, 12253),

Gene: GMA5_13 Start: 9999, Stop: 11417, Start Num: 42

Candidate Starts for GMA5_13:

(2, 9030), (4, 9108), (5, 9120), (8, 9216), (11, 9273), (13, 9336), (16, 9393), (21, 9480), (23, 9513), (26, 9633), (Start: 42 @9999 has 2 MA's), (60, 10092), (80, 10206), (128, 10509), (130, 10521), (149, 10638), (173, 10788), (177, 10806), (181, 10842), (192, 10932), (210, 11031), (212, 11040), (228, 11157), (237, 11223), (247, 11310), (254, 11367), (260, 11409),

Gene: GRU3_13 Start: 9957, Stop: 11411, Start Num: 42

Candidate Starts for GRU3_13:

(Start: 42 @9957 has 2 MA's), (55, 10035), (94, 10275), (100, 10311), (126, 10491), (130, 10524), (142, 10581), (155, 10662), (163, 10704), (170, 10767), (177, 10803), (190, 10914), (191, 10917), (192, 10923), (208, 11022), (237, 11223),

Gene: Jeanie_15 Start: 9897, Stop: 11378, Start Num: 42

Candidate Starts for Jeanie_15:

(1, 8499), (2, 8892), (6, 9003), (7, 9015), (11, 9135), (16, 9255), (19, 9318), (21, 9342), (23, 9375), (26, 9495), (29, 9555), (36, 9702), (Start: 42 @9897 has 2 MA's), (44, 9900), (51, 9948), (73, 10074), (77, 10098), (79, 10113), (85, 10152), (90, 10206), (101, 10272), (108, 10302), (111, 10326), (116, 10371), (123, 10413), (133, 10512), (134, 10518), (139, 10548), (144, 10581), (166, 10704), (178, 10809), (186, 10887), (197, 10962), (200, 10971), (211, 11022), (221, 11103), (223, 11109), (227, 11139), (228, 11145),

Gene: McGonagall_15 Start: 9897, Stop: 11378, Start Num: 42

Candidate Starts for McGonagall_15:

(1, 8499), (2, 8892), (6, 9003), (7, 9015), (11, 9135), (16, 9255), (19, 9318), (21, 9342), (23, 9375), (26, 9495), (29, 9555), (36, 9702), (Start: 42 @9897 has 2 MA's), (44, 9900), (51, 9948), (73, 10074), (77, 10098), (79, 10113), (85, 10152), (90, 10206), (101, 10272), (108, 10302), (111, 10326), (116, 10371), (123, 10413), (133, 10512), (134, 10518), (139, 10548), (144, 10581), (166, 10704), (178, 10809), (186, 10887), (197, 10962), (200, 10971), (211, 11022), (221, 11103), (223, 11109), (227, 11139), (228, 11145),

Gene: Penoan_14 Start: 9136, Stop: 10590, Start Num: 44

Candidate Starts for Penoan_14:

(44, 9136), (55, 9208), (69, 9274), (70, 9280), (71, 9292), (85, 9385), (90, 9430), (96, 9463), (102, 9496), (104, 9502), (109, 9532), (117, 9601), (120, 9619), (122, 9625), (127, 9670), (136, 9727), (138, 9748), (141, 9760), (160, 9889), (163, 9901), (168, 9961), (174, 9997), (184, 10096), (188, 10117), (199, 10189), (204, 10207), (207, 10231), (216, 10291), (219, 10312), (225, 10336), (231, 10378), (232, 10384), (241, 10441), (243, 10471), (245, 10483), (246, 10498), (249, 10516), (250, 10531), (251, 10543),

Gene: RRH1_14 Start: 10037, Stop: 11458, Start Num: 45

Candidate Starts for RRH1_14:

(14, 9347), (15, 9362), (25, 9551), (31, 9725), (34, 9812), (Start: 45 @10037 has 3 MA's), (53, 10082), (59, 10124), (75, 10220), (76, 10223), (82, 10247), (93, 10325), (110, 10412), (118, 10484), (121, 10499), (147, 10682), (175, 10859), (183, 10943), (195, 11021), (196, 11027), (200, 11039), (220, 11174), (245, 11345), (256, 11441),

Gene: Rahul_15 Start: 9893, Stop: 11296, Start Num: 43

Candidate Starts for Rahul_15:

(Start: 43 @9893 has 2 MA's), (54, 9968), (71, 10049), (84, 10112), (85, 10121), (108, 10244), (128, 10406), (130, 10418), (147, 10520), (161, 10589), (170, 10661), (187, 10799), (222, 11009), (231,

11060), (235, 11081), (237, 11114), (251, 11234), (253, 11249), (259, 11288),

Gene: Root_13 Start: 9215, Stop: 10636, Start Num: 45

Candidate Starts for Root_13:

(44, 9212), (Start: 45 @9215 has 3 MA's), (Start: 46 @9233 has 1 MA's), (78, 9419), (85, 9455), (91, 9503), (104, 9572), (109, 9602), (115, 9653), (117, 9671), (122, 9695), (145, 9863), (153, 9911), (160, 9956), (164, 9971), (182, 10130), (186, 10151), (188, 10166), (201, 10244), (207, 10277), (213, 10313), (218, 10358), (231, 10427), (232, 10433), (239, 10484),

Gene: SallySpecial_15 Start: 10025, Stop: 11461, Start Num: 41

Candidate Starts for SallySpecial_15:

(3, 9086), (9, 9218), (10, 9257), (12, 9320), (14, 9347), (17, 9407), (18, 9422), (19, 9455), (20, 9461), (22, 9488), (28, 9689), (30, 9707), (31, 9725), (33, 9794), (Start: 41 @10025 has 1 MA's), (49, 10064), (50, 10070), (53, 10085), (56, 10112), (57, 10115), (64, 10139), (65, 10148), (72, 10199), (76, 10214), (83, 10253), (86, 10268), (97, 10346), (99, 10352), (105, 10385), (108, 10403), (118, 10481), (121, 10496), (126, 10538), (131, 10571), (137, 10601), (152, 10703), (160, 10748), (162, 10754), (170, 10829), (176, 10859), (177, 10862), (196, 11021), (198, 11030), (203, 11045), (205, 11051), (214, 11120), (221, 11174), (222, 11177), (229, 11219), (230, 11225), (233, 11237), (235, 11249), (236, 11276), (248, 11363), (257, 11438),

Gene: Schiebs_16 Start: 9666, Stop: 11042, Start Num: 46

Candidate Starts for Schiebs_16:

(Start: 46 @9666 has 1 MA's), (47, 9669), (49, 9672), (52, 9690), (54, 9714), (66, 9768), (81, 9852), (88, 9897), (94, 9957), (98, 9969), (104, 9999), (109, 10029), (113, 10071), (114, 10074), (118, 10107), (121, 10122), (135, 10212), (142, 10254), (143, 10260), (146, 10296), (152, 10326), (154, 10335), (158, 10353), (160, 10368), (162, 10374), (179, 10482), (198, 10629), (202, 10641), (206, 10671), (215, 10728), (217, 10749), (226, 10794), (238, 10878), (240, 10884), (252, 10989), (255, 11004), (258, 11028),