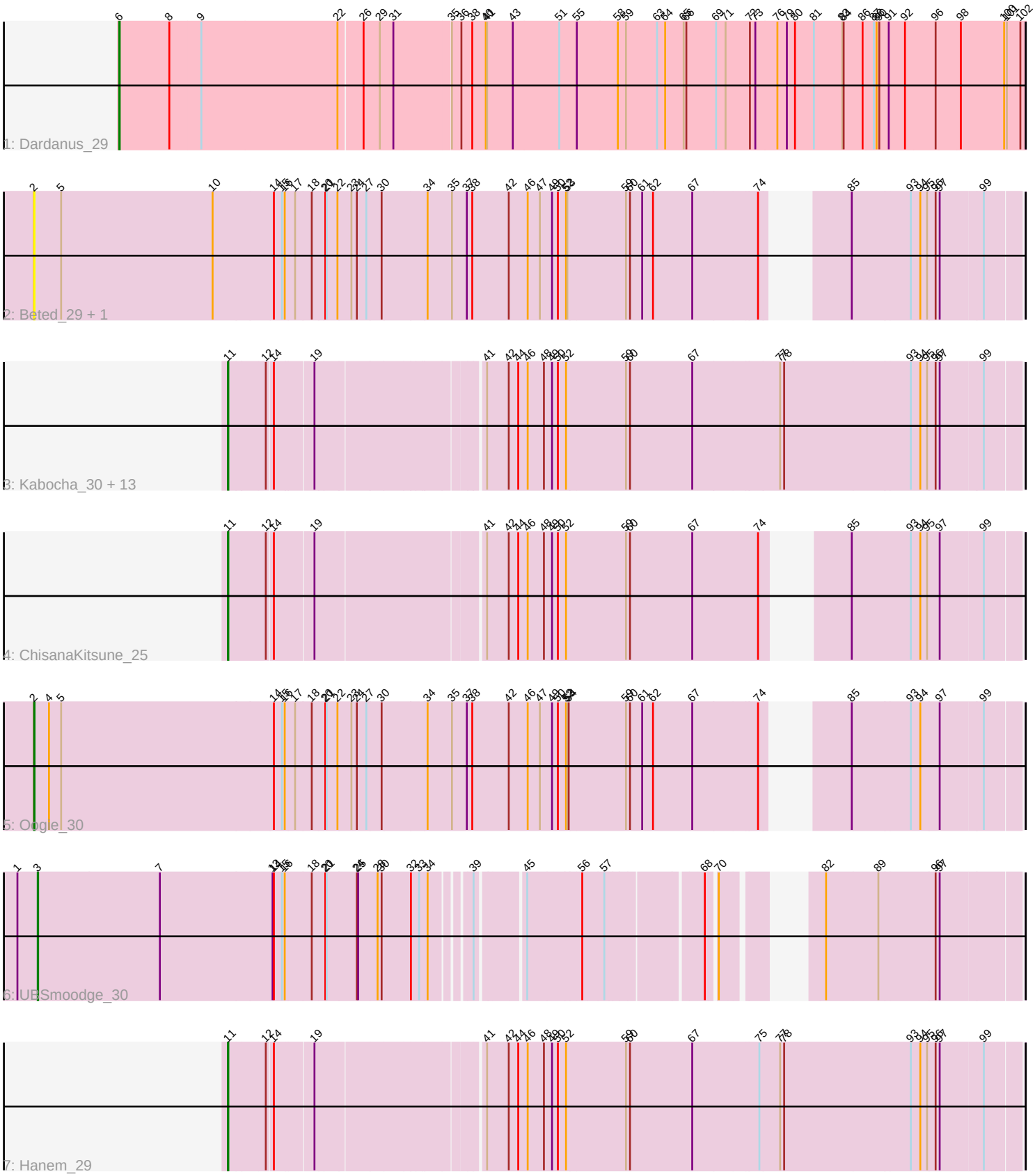
Pham 348047


1: Dardanus_29
2: Beted_29 + 1
3: Kabocha_30 + 13
4: ChisanaKitsune_25
5: Oogie_30
6: UESmoodge_30
7: Hanem_29

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 348047 Report

This analysis was run 11/14/26 on database version 672.

Pham number 348047 has 21 members, 9 are drafts.

Phages represented in each track:
• Track 1 : Dardanus_29
• Track 2 : Beted_29, Lenoshki_29
• Track 3 : Kabocha_30, Aloki_29, Chidiebere_29, Toneprano_28, Farrylious_28, Pakusa_28, EmoNemo_28, Mikronejon_29, MintFritos_28, Gray_29, Twin_28, Schomber_28, Amoonguss_28, Argena_28
• Track 4 : ChisanaKitsune_25
• Track 5 : Oogie_30
• Track 6 : UBSmoodge_30
• Track 7 : Hanem_29

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

The start number called the most often in the published annotations is 11, it was called in 9 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aloki_29, Amoonguss_28, Argena_28, Chidiebere_29, ChisanaKitsune_25, EmoNemo_28, Farrylious_28, Gray_29, Hanem_29, Kabocha_30, Mikronejon_29, MintFritos_28, Pakusa_28, Schomber_28, Toneprano_28, Twin_28,

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

Genes that do not have the "Most Annotated" start:
• Beted_29, Dardanus_29, Lenoshki_29, Oogie_30, UBSmoodge_30,

Summary by start number:

Start 2:
• Found in 3 of 21 (14.3%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beted_29 (DQ), Lenoshki_29 (DQ), Oogie_30 (DQ),

Start 3:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: UBSmoodge_30 (DQ),

Start 6:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dardanus_29 (CU3),

Start 11:
• Found in 16 of 21 (76.2%) of genes in pham
• Manual Annotations of this start: 9 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aloki_29 (DQ), Amoonguss_28 (DQ), Argena_28 (DQ), Chidiebere_29 (DQ), ChisanaKitsune_25 (DQ), EmoNemo_28 (DQ), Farrylious_28 (DQ), Gray_29 (DQ), Hanem_29 (DQ), Kabocha_30 (DQ), Mikronejon_29 (DQ), MintFritos_28 (DQ), Pakusa_28 (DQ), Schomber_28 (DQ), Toneprano_28 (DQ), Twin_28 (DQ),

Summary by clusters:

There are 2 clusters represented in this pham: CU3, DQ,

Info for manual annotations of cluster CU3:
•Start number 6 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster DQ:
•Start number 2 was manually annotated 1 time for cluster DQ.
•Start number 3 was manually annotated 1 time for cluster DQ.
•Start number 11 was manually annotated 9 times for cluster DQ.

Gene Information:

Gene: Aloki_29 Start: 17697, Stop: 19352, Start Num: 11
Candidate Starts for Aloki_29:
(Start: 11 @17697 has 9 MA's), (12, 17775), (14, 17787), (19, 17868), (41, 18204), (42, 18252), (44, 18273), (46, 18294), (48, 18330), (49, 18348), (50, 18357), (52, 18375), (59, 18504), (60, 18513), (67, 18651), (77, 18834), (78, 18843), (93, 19119), (94, 19140), (95, 19155), (96, 19173), (97, 19182), (99, 19275),

Gene: Amoonguss_28 Start: 17700, Stop: 19355, Start Num: 11
Candidate Starts for Amoonguss_28:
(Start: 11 @17700 has 9 MA's), (12, 17778), (14, 17790), (19, 17871), (41, 18207), (42, 18255), (44, 18276), (46, 18297), (48, 18333), (49, 18351), (50, 18360), (52, 18378), (59, 18507), (60, 18516), (67, 18654), (77, 18837), (78, 18846), (93, 19122), (94, 19143), (95, 19158), (96, 19176), (97, 19185), (99, 19278),

Gene: Argena_28 Start: 17697, Stop: 19352, Start Num: 11
Candidate Starts for Argena_28:
(Start: 11 @17697 has 9 MA's), (12, 17775), (14, 17787), (19, 17868), (41, 18204), (42, 18252), (44, 18273), (46, 18294), (48, 18330), (49, 18348), (50, 18357), (52, 18375), (59, 18504), (60, 18513), (67, 18651), (77, 18834), (78, 18843), (93, 19119), (94, 19140), (95, 19155), (96, 19173), (97, 19182), (99, 19275),

Gene: Beted_29 Start: 18993, Stop: 21029, Start Num: 2
Candidate Starts for Beted_29:
(Start: 2 @18993 has 1 MA's), (5, 19053), (10, 19389), (14, 19521), (15, 19539), (16, 19545), (17, 19566), (18, 19602), (20, 19629), (21, 19632), (22, 19656), (23, 19686), (24, 19698), (27, 19719), (30, 19752), (34, 19851), (35, 19905), (37, 19938), (38, 19950), (42, 20031), (46, 20073), (47, 20100), (49, 20127), (50, 20136), (52, 20154), (53, 20157), (59, 20283), (60, 20292), (61, 20319), (62, 20343), (67, 20430), (74, 20565), (85, 20670), (93, 20796), (94, 20817), (95, 20832), (96, 20850), (97, 20859), (99, 20952),

Gene: Chidiebere_29 Start: 17697, Stop: 19352, Start Num: 11
Candidate Starts for Chidiebere_29:
(Start: 11 @17697 has 9 MA's), (12, 17775), (14, 17787), (19, 17868), (41, 18204), (42, 18252), (44, 18273), (46, 18294), (48, 18330), (49, 18348), (50, 18357), (52, 18375), (59, 18504), (60, 18513), (67, 18651), (77, 18834), (78, 18843), (93, 19119), (94, 19140), (95, 19155), (96, 19173), (97, 19182), (99, 19275),

Gene: ChisanaKitsune_25 Start: 16362, Stop: 17915, Start Num: 11
Candidate Starts for ChisanaKitsune_25:
(Start: 11 @16362 has 9 MA's), (12, 16440), (14, 16452), (19, 16533), (41, 16869), (42, 16917), (44, 16938), (46, 16959), (48, 16995), (49, 17013), (50, 17022), (52, 17040), (59, 17169), (60, 17178), (67, 17316), (74, 17451), (85, 17556), (93, 17682), (94, 17703), (95, 17718), (97, 17745), (99, 17838),

Gene: Dardanus_29 Start: 20840, Stop: 22807, Start Num: 6
Candidate Starts for Dardanus_29:
(Start: 6 @20840 has 1 MA's), (8, 20951), (9, 21017), (22, 21317), (26, 21368), (29, 21404), (31, 21434), (35, 21554), (36, 21575), (38, 21599), (40, 21629), (41, 21632), (43, 21689), (51, 21791), (55, 21830), (58, 21920), (59, 21935), (63, 22004), (64, 22022), (65, 22061), (66, 22067), (69, 22133), (71, 22154), (72, 22208), (73, 22220), (76, 22268), (79, 22286), (80, 22304), (81, 22346), (83, 22409), (84, 22412), (86, 22454), (87, 22478), (88, 22481), (90, 22487), (91, 22508), (92, 22544), (96, 22610), (98, 22664), (100, 22760), (101, 22766), (102, 22796),

Gene: EmoNemo_28 Start: 17697, Stop: 19352, Start Num: 11
Candidate Starts for EmoNemo_28:
(Start: 11 @17697 has 9 MA's), (12, 17775), (14, 17787), (19, 17868), (41, 18204), (42, 18252), (44, 18273), (46, 18294), (48, 18330), (49, 18348), (50, 18357), (52, 18375), (59, 18504), (60, 18513), (67, 18651), (77, 18834), (78, 18843), (93, 19119), (94, 19140), (95, 19155), (96, 19173), (97, 19182), (99, 19275),

Gene: Farrylious_28 Start: 17450, Stop: 19105, Start Num: 11
Candidate Starts for Farrylious_28:
(Start: 11 @17450 has 9 MA's), (12, 17528), (14, 17540), (19, 17621), (41, 17957), (42, 18005), (44, 18026), (46, 18047), (48, 18083), (49, 18101), (50, 18110), (52, 18128), (59, 18257), (60, 18266), (67, 18404), (77, 18587), (78, 18596), (93, 18872), (94, 18893), (95, 18908), (96, 18926), (97, 18935), (99, 19028),

Gene: Gray_29 Start: 17697, Stop: 19352, Start Num: 11

Candidate Starts for Gray_29:
(Start: 11 @17697 has 9 MA's), (12, 17775), (14, 17787), (19, 17868), (41, 18204), (42, 18252), (44, 18273), (46, 18294), (48, 18330), (49, 18348), (50, 18357), (52, 18375), (59, 18504), (60, 18513), (67, 18651), (77, 18834), (78, 18843), (93, 19119), (94, 19140), (95, 19155), (96, 19173), (97, 19182), (99, 19275),

Gene: Hanem_29 Start: 17697, Stop: 19352, Start Num: 11
Candidate Starts for Hanem_29:
(Start: 11 @17697 has 9 MA's), (12, 17775), (14, 17787), (19, 17868), (41, 18204), (42, 18252), (44, 18273), (46, 18294), (48, 18330), (49, 18348), (50, 18357), (52, 18375), (59, 18504), (60, 18513), (67, 18651), (75, 18789), (77, 18834), (78, 18843), (93, 19119), (94, 19140), (95, 19155), (96, 19173), (97, 19182), (99, 19275),

Gene: Kabocha_30 Start: 18510, Stop: 20165, Start Num: 11
Candidate Starts for Kabocha_30:
(Start: 11 @18510 has 9 MA's), (12, 18588), (14, 18600), (19, 18681), (41, 19017), (42, 19065), (44, 19086), (46, 19107), (48, 19143), (49, 19161), (50, 19170), (52, 19188), (59, 19317), (60, 19326), (67, 19464), (77, 19647), (78, 19656), (93, 19932), (94, 19953), (95, 19968), (96, 19986), (97, 19995), (99, 20088),

Gene: Lenoshki_29 Start: 18993, Stop: 21029, Start Num: 2
Candidate Starts for Lenoshki_29:
(Start: 2 @18993 has 1 MA's), (5, 19053), (10, 19389), (14, 19521), (15, 19539), (16, 19545), (17, 19566), (18, 19602), (20, 19629), (21, 19632), (22, 19656), (23, 19686), (24, 19698), (27, 19719), (30, 19752), (34, 19851), (35, 19905), (37, 19938), (38, 19950), (42, 20031), (46, 20073), (47, 20100), (49, 20127), (50, 20136), (52, 20154), (53, 20157), (59, 20283), (60, 20292), (61, 20319), (62, 20343), (67, 20430), (74, 20565), (85, 20670), (93, 20796), (94, 20817), (95, 20832), (96, 20850), (97, 20859), (99, 20952),

Gene: Mikronejon_29 Start: 17697, Stop: 19352, Start Num: 11
Candidate Starts for Mikronejon_29:
(Start: 11 @17697 has 9 MA's), (12, 17775), (14, 17787), (19, 17868), (41, 18204), (42, 18252), (44, 18273), (46, 18294), (48, 18330), (49, 18348), (50, 18357), (52, 18375), (59, 18504), (60, 18513), (67, 18651), (77, 18834), (78, 18843), (93, 19119), (94, 19140), (95, 19155), (96, 19173), (97, 19182), (99, 19275),

Gene: MintFritos_28 Start: 17697, Stop: 19352, Start Num: 11
Candidate Starts for MintFritos_28:
(Start: 11 @17697 has 9 MA's), (12, 17775), (14, 17787), (19, 17868), (41, 18204), (42, 18252), (44, 18273), (46, 18294), (48, 18330), (49, 18348), (50, 18357), (52, 18375), (59, 18504), (60, 18513), (67, 18651), (77, 18834), (78, 18843), (93, 19119), (94, 19140), (95, 19155), (96, 19173), (97, 19182), (99, 19275),

Gene: Oogie_30 Start: 19019, Stop: 21055, Start Num: 2
Candidate Starts for Oogie_30:
(Start: 2 @19019 has 1 MA's), (4, 19052), (5, 19079), (14, 19547), (15, 19565), (16, 19571), (17, 19592), (18, 19628), (20, 19655), (21, 19658), (22, 19682), (23, 19712), (24, 19724), (27, 19745), (30, 19778), (34, 19877), (35, 19931), (37, 19964), (38, 19976), (42, 20057), (46, 20099), (47, 20126), (49, 20153), (50, 20162), (52, 20180), (53, 20183), (54, 20186), (59, 20309), (60, 20318), (61, 20345), (62, 20369), (67, 20456), (74, 20591), (85, 20696), (93, 20822), (94, 20843), (97, 20885), (99, 20978),

Gene: Pakusa_28 Start: 17439, Stop: 19094, Start Num: 11
Candidate Starts for Pakusa_28:

(Start: 11 @17439 has 9 MA's), (12, 17517), (14, 17529), (19, 17610), (41, 17946), (42, 17994), (44, 18015), (46, 18036), (48, 18072), (49, 18090), (50, 18099), (52, 18117), (59, 18246), (60, 18255), (67, 18393), (77, 18576), (78, 18585), (93, 18861), (94, 18882), (95, 18897), (96, 18915), (97, 18924), (99, 19017),

Gene: Schomber_28 Start: 17447, Stop: 19102, Start Num: 11
Candidate Starts for Schomber_28:
(Start: 11 @17447 has 9 MA's), (12, 17525), (14, 17537), (19, 17618), (41, 17954), (42, 18002), (44, 18023), (46, 18044), (48, 18080), (49, 18098), (50, 18107), (52, 18125), (59, 18254), (60, 18263), (67, 18401), (77, 18584), (78, 18593), (93, 18869), (94, 18890), (95, 18905), (96, 18923), (97, 18932), (99, 19025),

Gene: Toneprano_28 Start: 17697, Stop: 19352, Start Num: 11
Candidate Starts for Toneprano_28:
(Start: 11 @17697 has 9 MA's), (12, 17775), (14, 17787), (19, 17868), (41, 18204), (42, 18252), (44, 18273), (46, 18294), (48, 18330), (49, 18348), (50, 18357), (52, 18375), (59, 18504), (60, 18513), (67, 18651), (77, 18834), (78, 18843), (93, 19119), (94, 19140), (95, 19155), (96, 19173), (97, 19182), (99, 19275),

Gene: Twin_28 Start: 17697, Stop: 19352, Start Num: 11
Candidate Starts for Twin_28:
(Start: 11 @17697 has 9 MA's), (12, 17775), (14, 17787), (19, 17868), (41, 18204), (42, 18252), (44, 18273), (46, 18294), (48, 18330), (49, 18348), (50, 18357), (52, 18375), (59, 18504), (60, 18513), (67, 18651), (77, 18834), (78, 18843), (93, 19119), (94, 19140), (95, 19155), (96, 19173), (97, 19182), (99, 19275),

Gene: UBSmoodge_30 Start: 19255, Stop: 21171, Start Num: 3
Candidate Starts for UBSmoodge_30:
(1, 19210), (Start: 3 @19255 has 1 MA's), (7, 19525), (13, 19771), (14, 19774), (15, 19792), (16, 19798), (18, 19855), (20, 19882), (21, 19885), (24, 19951), (25, 19954), (28, 19996), (30, 20005), (32, 20068), (33, 20086), (34, 20104), (39, 20176), (45, 20266), (56, 20377), (57, 20422), (68, 20614), (70, 20632), (82, 20755), (89, 20869), (96, 20992), (97, 21001),