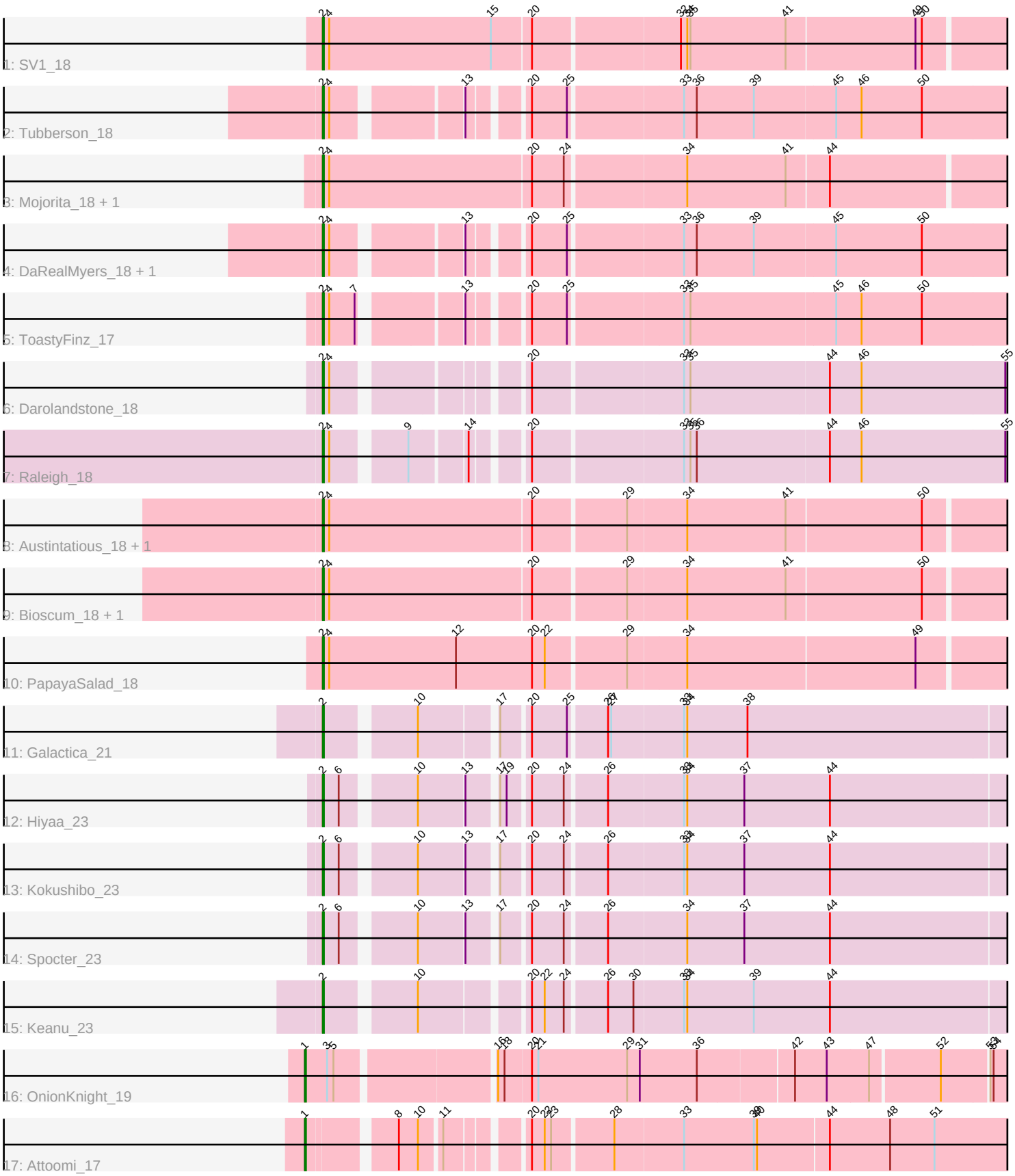
Zoomed Pham 348016



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 348016 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 348016 has 21 members, 0 are drafts.

Phages represented in each track:
- Track 1 : SV1_18
- Track 2 : Tubberson_18
- Track 3 : Mojorita_18, Picard_18
- Track 4 : DaRealMyers_18, SoJo_18
- Track 5 : ToastyFinz_17
- Track 6 : Darolandstone_18
- Track 7 : Raleigh_18
- Track 8 : Austintatious_18, Lishka_18
- Track 9 : Bioscum_18, Ididsumtinwong_18
- Track 10 : PapayaSalad_18
- Track 11 : Galactica_21
- Track 12 : Hiyaa_23
- Track 13 : Kokushibo_23
- Track 14 : Spocter_23
- Track 15 : Keanu_23
- Track 16 : OnionKnight_19
- Track 17 : Attoomi_17

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 19 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Austintatious_18, Bioscum_18, DaRealMyers_18, Darolandstone_18, Galactica_21, Hiyaa_23, Ididsumtinwong_18, Keanu_23, Kokushibo_23, Lishka_18, Mojorita_18, PapayaSalad_18, Picard_18, Raleigh_18, SV1_18, SoJo_18, Spocter_23, ToastyFinz_17, Tubberson_18,

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

•

Genes that do not have the "Most Annotated" start:
• Attoomi_17, OnionKnight_19,

Summary by start number:

Start 1:
• Found in 2 of 21 (9.5%) of genes in pham
• Manual Annotations of this start: 2 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Attoomi_17 (singleton), OnionKnight_19 (singleton),

Start 2:
• Found in 19 of 21 (90.5%) of genes in pham
• Manual Annotations of this start: 19 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Austintatious_18 (BC3), Bioscum_18 (BC3), DaRealMyers_18 (BC1), Darolandstone_18 (BC2), Galactica_21 (BQ), Hiyaa_23 (BQ), Ididsumtinwong_18 (BC3), Keanu_23 (BQ), Kokushibo_23 (BQ), Lishka_18 (BC3), Mojorita_18 (BC1), PapayaSalad_18 (BC3), Picard_18 (BC1), Raleigh_18 (BC2), SV1_18 (BC1), SoJo_18 (BC1), Spocter_23 (BQ), ToastyFinz_17 (BC1), Tubberson_18 (BC1),

Summary by clusters:

There are 5 clusters represented in this pham: singleton, BC3, BQ, BC2, BC1,

Info for manual annotations of cluster BC1:
•Start number 2 was manually annotated 7 times for cluster BC1.

Info for manual annotations of cluster BC2:
•Start number 2 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BC3:
•Start number 2 was manually annotated 5 times for cluster BC3.

Info for manual annotations of cluster BQ:
•Start number 2 was manually annotated 5 times for cluster BQ.

Gene Information:

Gene: Attoomi_17 Start: 14186, Stop: 15451, Start Num: 1
Candidate Starts for Attoomi_17:
(Start: 1 @14186 has 2 MA's), (8, 14258), (10, 14276), (11, 14294), (20, 14357), (22, 14369), (23, 14375), (28, 14429), (33, 14492), (39, 14558), (40, 14561), (44, 14627), (48, 14684), (51, 14726), (61, 14873), (65, 14906), (71, 14969), (87, 15128), (94, 15173), (95, 15185), (97, 15191), (99, 15227), (101, 15263), (102, 15266), (103, 15278), (104, 15302), (105, 15332), (108, 15353), (110, 15371),

Gene: Austintatious_18 Start: 13110, Stop: 14192, Start Num: 2

Candidate Starts for Austintatious_18:
(Start: 2 @13110 has 19 MA's), (4, 13116), (20, 13305), (29, 13389), (34, 13443), (41, 13536), (50, 13662), (56, 13764), (58, 13794), (67, 13881), (79, 14025), (90, 14085), (92, 14109),

Gene: Bioscum_18 Start: 13146, Stop: 14228, Start Num: 2
Candidate Starts for Bioscum_18:
(Start: 2 @13146 has 19 MA's), (4, 13152), (20, 13341), (29, 13425), (34, 13479), (41, 13572), (50, 13698), (56, 13800), (58, 13830), (67, 13917), (72, 13956), (79, 14061), (90, 14121), (92, 14145),

Gene: DaRealMyers_18 Start: 13632, Stop: 14639, Start Num: 2
Candidate Starts for DaRealMyers_18:
(Start: 2 @13632 has 19 MA's), (4, 13638), (13, 13743), (20, 13788), (25, 13821), (33, 13923), (36, 13935), (39, 13989), (45, 14064), (50, 14145), (68, 14367), (84, 14541), (86, 14547), (95, 14610), (98, 14631),

Gene: Darolandstone_18 Start: 13797, Stop: 14798, Start Num: 2
Candidate Starts for Darolandstone_18:
(Start: 2 @13797 has 19 MA's), (4, 13803), (20, 13953), (33, 14088), (35, 14094), (44, 14223), (46, 14253), (55, 14388), (78, 14664), (81, 14697), (83, 14712),

Gene: Galactica_21 Start: 18569, Stop: 19837, Start Num: 2
Candidate Starts for Galactica_21:
(Start: 2 @18569 has 19 MA's), (10, 18644), (17, 18710), (20, 18734), (25, 18767), (26, 18800), (27, 18803), (33, 18869), (34, 18872), (38, 18929), (64, 19274), (70, 19343), (75, 19379), (76, 19397), (95, 19568), (102, 19646), (107, 19733), (110, 19754),

Gene: Hiyaa_23 Start: 19604, Stop: 20875, Start Num: 2
Candidate Starts for Hiyaa_23:
(Start: 2 @19604 has 19 MA's), (6, 19619), (10, 19679), (13, 19721), (17, 19745), (19, 19751), (20, 19769), (24, 19799), (26, 19835), (33, 19904), (34, 19907), (37, 19961), (44, 20042), (64, 20309), (76, 20429), (83, 20531), (88, 20555), (95, 20606), (96, 20609), (97, 20612), (100, 20672), (106, 20771), (109, 20792), (112, 20846), (114, 20855),

Gene: Ididsumtinwong_18 Start: 13146, Stop: 14228, Start Num: 2
Candidate Starts for Ididsumtinwong_18:
(Start: 2 @13146 has 19 MA's), (4, 13152), (20, 13341), (29, 13425), (34, 13479), (41, 13572), (50, 13698), (56, 13800), (58, 13830), (67, 13917), (72, 13956), (79, 14061), (90, 14121), (92, 14145),

Gene: Keanu_23 Start: 19646, Stop: 20911, Start Num: 2
Candidate Starts for Keanu_23:
(Start: 2 @19646 has 19 MA's), (10, 19721), (20, 19811), (22, 19823), (24, 19841), (26, 19877), (30, 19901), (33, 19946), (34, 19949), (39, 20012), (44, 20084), (64, 20351), (66, 20390), (76, 20471), (77, 20513), (91, 20621), (96, 20645), (110, 20828), (111, 20864), (113, 20882), (115, 20903),

Gene: Kokushibo_23 Start: 19619, Stop: 20890, Start Num: 2
Candidate Starts for Kokushibo_23:
(Start: 2 @19619 has 19 MA's), (6, 19634), (10, 19694), (13, 19736), (17, 19760), (20, 19784), (24, 19814), (26, 19850), (33, 19919), (34, 19922), (37, 19976), (44, 20057), (64, 20324), (70, 20393), (76, 20444), (83, 20546), (88, 20570), (96, 20624), (97, 20627), (100, 20687), (106, 20786), (109, 20807), (112, 20861), (114, 20870),

Gene: Lishka_18 Start: 13110, Stop: 14192, Start Num: 2
Candidate Starts for Lishka_18:

(Start: 2 @13110 has 19 MA's), (4, 13116), (20, 13305), (29, 13389), (34, 13443), (41, 13536), (50, 13662), (56, 13764), (58, 13794), (67, 13881), (79, 14025), (90, 14085), (92, 14109),

Gene: Mojorita_18 Start: 13248, Stop: 14330, Start Num: 2
Candidate Starts for Mojorita_18:
(Start: 2 @13248 has 19 MA's), (4, 13254), (20, 13443), (24, 13473), (34, 13581), (41, 13674), (44, 13713), (56, 13902), (57, 13926), (66, 14016), (67, 14019), (72, 14058), (74, 14073), (77, 14133), (79, 14163), (80, 14172), (83, 14193), (89, 14220), (90, 14223), (92, 14247), (96, 14271),

Gene: OnionKnight_19 Start: 15001, Stop: 16035, Start Num: 1
Candidate Starts for OnionKnight_19:
(Start: 1 @15001 has 2 MA's), (3, 15022), (5, 15028), (16, 15166), (18, 15172), (20, 15196), (21, 15202), (29, 15286), (31, 15298), (36, 15352), (42, 15439), (43, 15469), (47, 15508), (52, 15571), (53, 15613), (54, 15616), (60, 15703), (69, 15796), (80, 15925), (82, 15934), (85, 15952),

Gene: PapayaSalad_18 Start: 13118, Stop: 14203, Start Num: 2
Candidate Starts for PapayaSalad_18:
(Start: 2 @13118 has 19 MA's), (4, 13124), (12, 13244), (20, 13316), (22, 13328), (29, 13400), (34, 13454), (49, 13667), (56, 13775), (66, 13889), (67, 13892), (72, 13931), (79, 14036), (92, 14120), (93, 14126),

Gene: Picard_18 Start: 13242, Stop: 14324, Start Num: 2
Candidate Starts for Picard_18:
(Start: 2 @13242 has 19 MA's), (4, 13248), (20, 13437), (24, 13467), (34, 13575), (41, 13668), (44, 13707), (56, 13896), (57, 13920), (66, 14010), (67, 14013), (72, 14052), (74, 14067), (77, 14127), (79, 14157), (80, 14166), (83, 14187), (89, 14214), (90, 14217), (92, 14241), (96, 14265),

Gene: Raleigh_18 Start: 13982, Stop: 14983, Start Num: 2
Candidate Starts for Raleigh_18:
(Start: 2 @13982 has 19 MA's), (4, 13988), (9, 14048), (14, 14096), (20, 14138), (33, 14273), (35, 14279), (36, 14285), (44, 14408), (46, 14438), (55, 14573), (67, 14717), (73, 14765), (78, 14849), (83, 14897),

Gene: SV1_18 Start: 13354, Stop: 14436, Start Num: 2
Candidate Starts for SV1_18:
(Start: 2 @13354 has 19 MA's), (4, 13360), (15, 13513), (20, 13549), (32, 13681), (34, 13687), (35, 13690), (41, 13780), (49, 13900), (50, 13906), (56, 14008), (57, 14032), (59, 14041), (66, 14122), (67, 14125), (72, 14164), (79, 14269), (90, 14329), (92, 14353), (96, 14377), (99, 14416),

Gene: SoJo_18 Start: 13632, Stop: 14639, Start Num: 2
Candidate Starts for SoJo_18:
(Start: 2 @13632 has 19 MA's), (4, 13638), (13, 13743), (20, 13788), (25, 13821), (33, 13923), (36, 13935), (39, 13989), (45, 14064), (50, 14145), (68, 14367), (84, 14541), (86, 14547), (95, 14610), (98, 14631),

Gene: Spocter_23 Start: 19592, Stop: 20863, Start Num: 2
Candidate Starts for Spocter_23:
(Start: 2 @19592 has 19 MA's), (6, 19607), (10, 19667), (13, 19709), (17, 19733), (20, 19757), (24, 19787), (26, 19823), (34, 19895), (37, 19949), (44, 20030), (64, 20297), (76, 20417), (83, 20519), (88, 20543), (95, 20594), (96, 20597), (97, 20600), (100, 20660), (106, 20759), (109, 20780), (112, 20834), (114, 20843),

Gene: ToastyFinz_17 Start: 13310, Stop: 14317, Start Num: 2

Candidate Starts for ToastyFinz_17:
(Start: 2 @13310 has 19 MA's), (4, 13316), (7, 13340), (13, 13421), (20, 13466), (25, 13499), (33, 13601), (35, 13607), (45, 13742), (46, 13766), (50, 13823), (62, 13985), (63, 13991), (68, 14045), (84, 14219), (98, 14309),

Gene: Tubberson_18 Start: 13632, Stop: 14639, Start Num: 2
Candidate Starts for Tubberson_18:
(Start: 2 @13632 has 19 MA's), (4, 13638), (13, 13743), (20, 13788), (25, 13821), (33, 13923), (36, 13935), (39, 13989), (45, 14064), (46, 14088), (50, 14145), (68, 14367), (84, 14541), (86, 14547), (95, 14610), (98, 14631),