Pham 348167


1: Stella_40
2: Fudan_12 + 1
3: GiJojo_9
4: BRock_8
5: Talos_13
6: Alone3_13
7: Park1214_12
8: Garnacho_11
9: Beleetus_12
10: Bimmel_63
11: Success_65
12: Spooks_64
13: Ibantik_83

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 348167 Report

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

Pham number 348167 has 14 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Stella_40
• Track 2 : Fudan_12, LuckySocke_12
• Track 3 : GiJojo_9
• Track 4 : BRock_8
• Track 5 : Talos_13
• Track 6 : Alone3_13
• Track 7 : Park1214_12
• Track 8 : Garnacho_11
• Track 9 : Beleetus_12
• Track 10 : Bimmel_63
• Track 11 : Success_65
• Track 12 : Spooks_64
• Track 13 : Ibantik_83

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 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alone3_13, BRock_8, Beleetus_12, Fudan_12, Garnacho_11, GiJojo_9, LuckySocke_12, Park1214_12, Talos_13,

Genes that have the "Most Annotated" start but do not call it:
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Genes that do not have the "Most Annotated" start:
• Bimmel_63, Ibantik_83, Spooks_64, Stella_40, Success_65,

Summary by start number:

Start 4:
• Found in 4 of 14 (28.6%) of genes in pham
• Manual Annotations of this start: 4 of 13

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bimmel_63 (BT), Ibantik_83 (JN), Spooks_64 (BT), Success_65 (BT),

Start 12:
• Found in 9 of 14 (64.3%) of genes in pham
• Manual Annotations of this start: 8 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alone3_13 (BS), BRock_8 (BS), Beleetus_12 (BS), Fudan_12 (BS), Garnacho_11 (BS), GiJojo_9 (BS), LuckySocke_12 (BS), Park1214_12 (BS), Talos_13 (BS),

Start 17:
• Found in 1 of 14 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Stella_40 (BF),

Summary by clusters:

There are 4 clusters represented in this pham: BT, JN, BF, BS,

Info for manual annotations of cluster BF:
•Start number 17 was manually annotated 1 time for cluster BF.

Info for manual annotations of cluster BS:
•Start number 12 was manually annotated 8 times for cluster BS.

Info for manual annotations of cluster BT:
•Start number 4 was manually annotated 3 times for cluster BT.

Info for manual annotations of cluster JN:
•Start number 4 was manually annotated 1 time for cluster JN.

Gene Information:

Gene: Alone3_13 Start: 4414, Stop: 6246, Start Num: 12
Candidate Starts for Alone3_13:
(Start: 12 @4414 has 8 MA's), (47, 4903), (60, 5053), (62, 5065), (69, 5125), (74, 5176), (79, 5239), (80, 5260), (84, 5302), (88, 5353), (92, 5419), (103, 5530), (108, 5587), (119, 5800), (121, 5812), (122, 5815), (128, 5857), (134, 5899), (140, 5980), (147, 6046), (148, 6055), (155, 6127), (157, 6151), (161, 6196),

Gene: BRock_8 Start: 3380, Stop: 5221, Start Num: 12
Candidate Starts for BRock_8:
(Start: 12 @3380 has 8 MA's), (16, 3428), (22, 3491), (24, 3503), (25, 3524), (27, 3545), (31, 3644), (32, 3677), (34, 3734), (41, 3809), (45, 3830), (51, 3914), (52, 3926), (58, 3995), (60, 4019), (61, 4025), (62, 4031), (69, 4091), (70, 4094), (75, 4157), (78, 4184), (81, 4229), (82, 4235), (84, 4268), (85, 4271), (90, 4340), (93, 4397), (97, 4424), (110, 4607), (112, 4634), (117, 4742), (137, 4916), (142, 4970), (143, 4976), (148, 5024), (152, 5054), (157, 5123), (158, 5144), (163, 5213),

Gene: Beleetus_12 Start: 4082, Stop: 5917, Start Num: 12
Candidate Starts for Beleetus_12:
(Start: 12 @4082 has 8 MA's), (29, 4301), (47, 4571), (60, 4721), (61, 4727), (62, 4733), (69, 4793), (74, 4844), (79, 4907), (80, 4928), (84, 4970), (88, 5021), (103, 5198), (108, 5255), (124, 5501), (127, 5525), (129, 5543), (134, 5570), (136, 5597), (143, 5681), (153, 5762), (155, 5798), (162, 5882),

Gene: Bimmel_63 Start: 41125, Stop: 43452, Start Num: 4
Candidate Starts for Bimmel_63:
(1, 41080), (3, 41107), (Start: 4 @41125 has 4 MA's), (5, 41161), (6, 41188), (8, 41281), (9, 41305), (10, 41338), (15, 41380), (20, 41455), (21, 41464), (26, 41521), (35, 41731), (37, 41761), (39, 41776), (42, 41821), (44, 41836), (48, 41899), (50, 41908), (51, 41926), (55, 41983), (57, 42007), (64, 42079), (65, 42082), (71, 42139), (83, 42292), (85, 42298), (86, 42337), (100, 42490), (103, 42538), (115, 42754), (130, 42883), (133, 42904), (144, 43039), (154, 43126), (156, 43183), (164, 43291),

Gene: Fudan_12 Start: 4096, Stop: 5931, Start Num: 12
Candidate Starts for Fudan_12:
(Start: 12 @4096 has 8 MA's), (47, 4585), (60, 4735), (62, 4747), (69, 4807), (74, 4858), (79, 4921), (80, 4942), (88, 5035), (92, 5101), (103, 5212), (108, 5269), (114, 5398), (120, 5488), (124, 5515), (127, 5539), (129, 5557), (134, 5584), (136, 5611), (143, 5695), (153, 5776), (162, 5896),

Gene: Garnacho_11 Start: 4059, Stop: 5900, Start Num: 12
Candidate Starts for Garnacho_11:
(Start: 12 @4059 has 8 MA's), (25, 4203), (49, 4569), (51, 4593), (60, 4698), (62, 4710), (68, 4764), (69, 4770), (74, 4821), (75, 4836), (77, 4851), (79, 4884), (80, 4905), (84, 4947), (88, 4998), (95, 5085), (102, 5157), (103, 5175), (104, 5178), (107, 5211), (114, 5361), (116, 5400), (124, 5478), (128, 5505), (135, 5568), (137, 5598), (140, 5628), (141, 5643), (143, 5658), (146, 5682), (147, 5697), (148, 5706), (153, 5739), (157, 5805),

Gene: GiJojo_9 Start: 3845, Stop: 5674, Start Num: 12
Candidate Starts for GiJojo_9:
(Start: 12 @3845 has 8 MA's), (22, 3956), (25, 3989), (33, 4157), (47, 4334), (60, 4484), (62, 4496), (74, 4607), (79, 4670), (80, 4691), (88, 4784), (92, 4850), (102, 4943), (103, 4961), (108, 5018), (114, 5144), (116, 5183), (120, 5234), (122, 5246), (126, 5270), (134, 5330), (136, 5357), (141, 5426), (147, 5477), (148, 5486),

Gene: Ibantik_83 Start: 45267, Stop: 47420, Start Num: 4
Candidate Starts for Ibantik_83:
(Start: 4 @45267 has 4 MA's), (7, 45351), (9, 45447), (11, 45492), (13, 45513), (14, 45519), (23, 45624), (35, 45882), (37, 45912), (38, 45915), (39, 45927), (44, 45987), (50, 46059), (54, 46131), (57, 46158), (59, 46176), (60, 46188), (65, 46230), (66, 46233), (67, 46248), (68, 46257), (83, 46440), (87, 46491), (91, 46533), (98, 46611), (99, 46617), (106, 46710), (109, 46779), (111, 46809), (115, 46905), (118, 46956), (125, 47007), (135, 47094), (138, 47133), (145, 47208), (151, 47253), (160, 47355),

Gene: LuckySocke_12 Start: 4096, Stop: 5931, Start Num: 12
Candidate Starts for LuckySocke_12:
(Start: 12 @4096 has 8 MA's), (47, 4585), (60, 4735), (62, 4747), (69, 4807), (74, 4858), (79, 4921), (80, 4942), (88, 5035), (92, 5101), (103, 5212), (108, 5269), (114, 5398), (120, 5488), (124, 5515), (127, 5539), (129, 5557), (134, 5584), (136, 5611), (143, 5695), (153, 5776), (162, 5896),

Gene: Park1214_12 Start: 4120, Stop: 5955, Start Num: 12
Candidate Starts for Park1214_12:
(Start: 12 @4120 has 8 MA's), (31, 4384), (47, 4609), (53, 4696), (60, 4759), (62, 4771), (68, 4825), (74, 4882), (77, 4912), (79, 4945), (80, 4966), (84, 5008), (88, 5059), (90, 5080), (92, 5125), (102,

5218), (103, 5236), (116, 5461), (122, 5524), (129, 5581), (132, 5602), (134, 5608), (136, 5635), (137, 5659), (143, 5719), (153, 5800),

Gene: Spooks_64 Start: 42429, Stop: 44756, Start Num: 4
Candidate Starts for Spooks_64:
(1, 42384), (2, 42399), (3, 42411), (Start: 4 @42429 has 4 MA's), (5, 42465), (8, 42585), (9, 42609), (11, 42654), (15, 42684), (18, 42720), (26, 42825), (35, 43035), (37, 43065), (39, 43080), (42, 43125), (44, 43140), (50, 43212), (51, 43230), (54, 43284), (55, 43287), (56, 43296), (57, 43311), (64, 43383), (65, 43386), (71, 43443), (83, 43596), (85, 43602), (86, 43641), (96, 43752), (103, 43842), (115, 44058), (130, 44187), (133, 44208), (144, 44343), (150, 44388), (154, 44430), (159, 44514), (164, 44595), (165, 44700),

Gene: Stella_40 Start: 20111, Stop: 21928, Start Num: 17
Candidate Starts for Stella_40:
(Start: 17 @20111 has 1 MA's), (28, 20267), (36, 20435), (40, 20495), (43, 20507), (46, 20528), (52, 20621), (56, 20672), (63, 20747), (64, 20756), (66, 20762), (72, 20825), (73, 20828), (74, 20846), (76, 20870), (83, 20969), (89, 21047), (91, 21062), (94, 21116), (99, 21149), (101, 21176), (105, 21224), (113, 21377), (123, 21503), (131, 21572), (135, 21605), (139, 21659), (149, 21749),

Gene: Success_65 Start: 41563, Stop: 43890, Start Num: 4
Candidate Starts for Success_65:
(1, 41518), (3, 41545), (Start: 4 @41563 has 4 MA's), (5, 41599), (8, 41719), (9, 41743), (10, 41776), (15, 41818), (20, 41893), (26, 41959), (35, 42169), (37, 42199), (39, 42214), (42, 42259), (44, 42274), (45, 42277), (48, 42337), (50, 42346), (51, 42364), (55, 42421), (57, 42445), (64, 42517), (65, 42520), (71, 42577), (83, 42730), (85, 42736), (86, 42775), (100, 42928), (103, 42976), (115, 43192), (133, 43342), (144, 43477), (154, 43564), (164, 43729),

Gene: Talos_13 Start: 4312, Stop: 6144, Start Num: 12
Candidate Starts for Talos_13:
(Start: 12 @4312 has 8 MA's), (19, 4393), (25, 4456), (29, 4531), (30, 4564), (47, 4801), (60, 4951), (62, 4963), (74, 5074), (79, 5137), (80, 5158), (84, 5200), (88, 5251), (92, 5317), (102, 5410), (103, 5428), (107, 5464), (119, 5698), (121, 5710), (122, 5713), (128, 5755), (134, 5797), (140, 5878), (147, 5944), (148, 5953), (155, 6025), (157, 6049), (161, 6094),