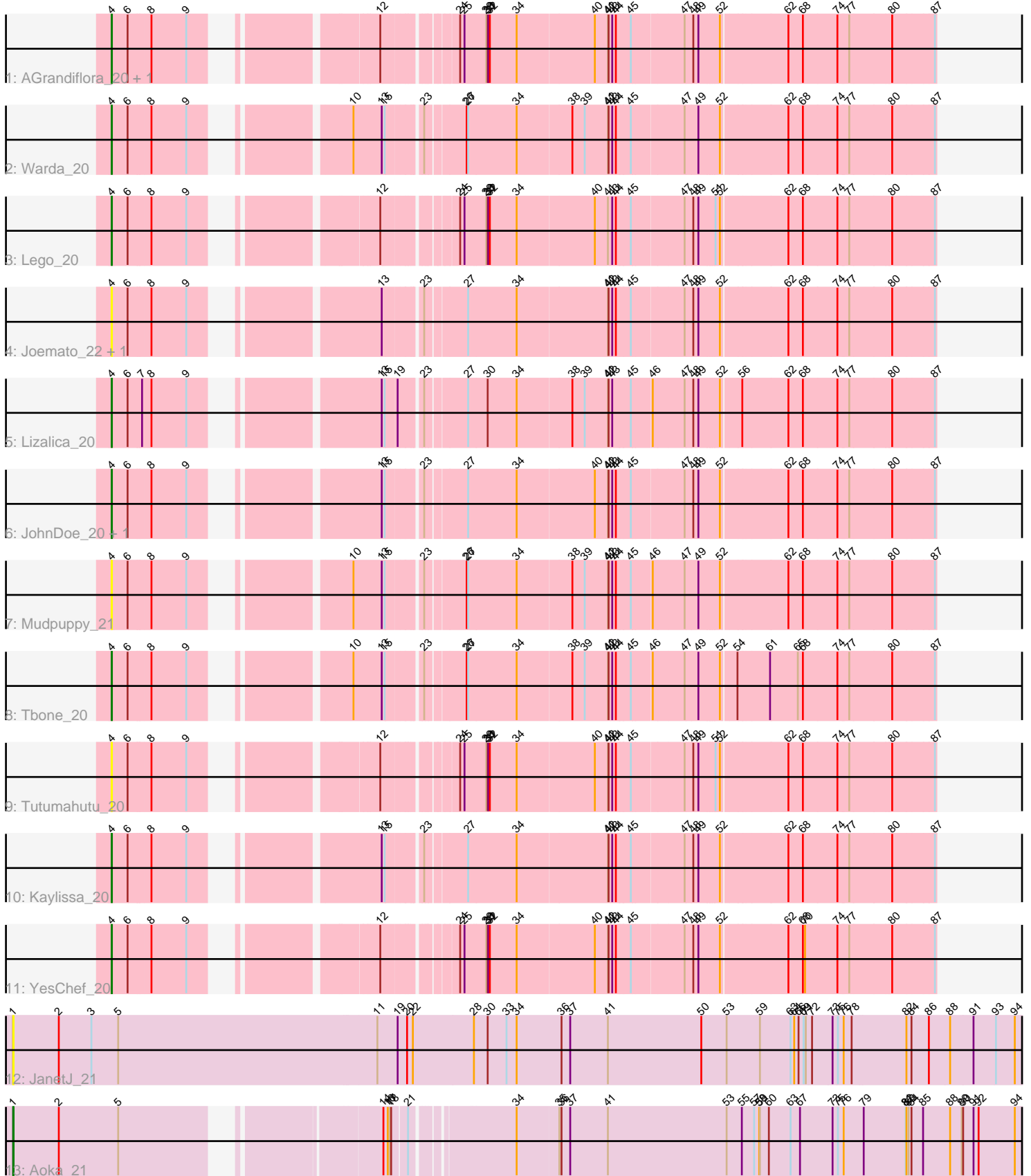


Pham 156739



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 156739 Report

This analysis was run 04/12/24 on database version 558.

Pham number 156739 has 16 members, 7 are drafts.

Phages represented in each track:

- Track 1 : AGrandiflora_20, Powerpuff_20
- Track 2 : Warda_20
- Track 3 : Lego_20
- Track 4 : Joemato_22, Simpson_22
- Track 5 : Lizalica_20
- Track 6 : JohnDoe_20, Cyan_20
- Track 7 : Mudpuppy_21
- Track 8 : Tbone_20
- Track 9 : Tutumahutu_20
- Track 10 : Kaylissa_20
- Track 11 : YesChef_20
- Track 12 : JanetJ_21
- Track 13 : Aoka_21

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

The start number called the most often in the published annotations is 4, it was called in 8 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AGrandiflora_20, Cyan_20, Joemato_22, JohnDoe_20, Kaylissa_20, Lego_20, Lizalica_20, Mudpuppy_21, Powerpuff_20, Simpson_22, Tbone_20, Tutumahutu_20, Warda_20, YesChef_20,

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

-

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

- Aoka_21, JanetJ_21,

Summary by start number:

Start 1:

- Found in 2 of 16 (12.5%) 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: Aoka_21 (FO), JanetJ_21 (FO),

Start 4:

- Found in 14 of 16 (87.5%) of genes in pham
- Manual Annotations of this start: 8 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AGrandiflora_20 (AZ1), Cyan_20 (AZ1), Joemato_22 (AZ1), JohnDoe_20 (AZ1), Kaylissa_20 (AZ1), Lego_20 (AZ1), Lizalica_20 (AZ1), Mudpuppy_21 (AZ1), Powerpuff_20 (AZ1), Simpson_22 (AZ1), Tbone_20 (AZ1), Tutumahutu_20 (AZ1), Warda_20 (AZ1), YesChef_20 (AZ1),

Summary by clusters:

There are 2 clusters represented in this pham: AZ1, FO,

Info for manual annotations of cluster AZ1:

- Start number 4 was manually annotated 8 times for cluster AZ1.

Info for manual annotations of cluster FO:

- Start number 1 was manually annotated 1 time for cluster FO.

Gene Information:

Gene: AGrandiflora_20 Start: 16043, Stop: 19015, Start Num: 4

Candidate Starts for AGrandiflora_20:

(Start: 4 @16043 has 8 MA's), (6, 16106), (8, 16190), (9, 16334), (12, 16928), (24, 17159), (25, 17177), (29, 17255), (30, 17261), (31, 17264), (32, 17270), (34, 17381), (40, 17693), (41, 17747), (42, 17750), (43, 17765), (44, 17780), (45, 17840), (47, 18041), (48, 18071), (49, 18092), (52, 18173), (62, 18425), (68, 18485), (74, 18626), (77, 18671), (80, 18842), (87, 19010),

Gene: Aoka_21 Start: 17080, Stop: 21027, Start Num: 1

Candidate Starts for Aoka_21:

(Start: 1 @17080 has 1 MA's), (2, 17269), (5, 17515), (14, 18409), (16, 18427), (17, 18433), (18, 18439), (21, 18490), (34, 18856), (35, 19021), (36, 19030), (37, 19066), (41, 19222), (53, 19714), (55, 19777), (57, 19828), (58, 19849), (59, 19852), (60, 19888), (63, 19978), (67, 20017), (73, 20149), (75, 20170), (76, 20194), (79, 20275), (81, 20449), (82, 20452), (83, 20461), (84, 20473), (85, 20521), (88, 20632), (89, 20680), (90, 20686), (91, 20725), (92, 20746), (94, 20896),

Gene: Cyan_20 Start: 16046, Stop: 19063, Start Num: 4

Candidate Starts for Cyan_20:

(Start: 4 @16046 has 8 MA's), (6, 16109), (8, 16193), (9, 16337), (13, 16955), (15, 16967), (23, 17087), (27, 17237), (34, 17429), (40, 17741), (41, 17795), (42, 17798), (43, 17813), (44, 17828), (45, 17888), (47, 18089), (48, 18119), (49, 18140), (52, 18221), (62, 18473), (68, 18533), (74, 18674), (77, 18719), (80, 18890), (87, 19058),

Gene: JanetJ_21 Start: 16898, Stop: 21157, Start Num: 1

Candidate Starts for JanetJ_21:

(Start: 1 @16898 has 1 MA's), (2, 17087), (3, 17222), (5, 17333), (11, 18398), (19, 18482), (20, 18521), (22, 18545), (28, 18797), (30, 18854), (33, 18932), (34, 18974), (36, 19160), (37, 19196), (41,

19352), (50, 19739), (53, 19844), (59, 19982), (63, 20108), (64, 20123), (66, 20141), (69, 20162), (71, 20171), (72, 20195), (73, 20279), (75, 20300), (76, 20324), (78, 20357), (82, 20582), (84, 20603), (86, 20675), (88, 20762), (91, 20858), (93, 20948), (94, 21026),

Gene: Joemato_22 Start: 16046, Stop: 19063, Start Num: 4

Candidate Starts for Joemato_22:

(Start: 4 @16046 has 8 MA's), (6, 16109), (8, 16193), (9, 16337), (13, 16955), (23, 17087), (27, 17237), (34, 17429), (41, 17795), (42, 17798), (43, 17813), (44, 17828), (45, 17888), (47, 18089), (48, 18119), (49, 18140), (52, 18221), (62, 18473), (68, 18533), (74, 18674), (77, 18719), (80, 18890), (87, 19058),

Gene: JohnDoe_20 Start: 16041, Stop: 19058, Start Num: 4

Candidate Starts for JohnDoe_20:

(Start: 4 @16041 has 8 MA's), (6, 16104), (8, 16188), (9, 16332), (13, 16950), (15, 16962), (23, 17082), (27, 17232), (34, 17424), (40, 17736), (41, 17790), (42, 17793), (43, 17808), (44, 17823), (45, 17883), (47, 18084), (48, 18114), (49, 18135), (52, 18216), (62, 18468), (68, 18528), (74, 18669), (77, 18714), (80, 18885), (87, 19053),

Gene: Kaylissa_20 Start: 16047, Stop: 19064, Start Num: 4

Candidate Starts for Kaylissa_20:

(Start: 4 @16047 has 8 MA's), (6, 16110), (8, 16194), (9, 16338), (13, 16956), (15, 16968), (23, 17088), (27, 17238), (34, 17430), (41, 17796), (42, 17799), (43, 17814), (44, 17829), (45, 17889), (47, 18090), (48, 18120), (49, 18141), (52, 18222), (62, 18474), (68, 18534), (74, 18675), (77, 18720), (80, 18891), (87, 19059),

Gene: Lego_20 Start: 16046, Stop: 19018, Start Num: 4

Candidate Starts for Lego_20:

(Start: 4 @16046 has 8 MA's), (6, 16109), (8, 16193), (9, 16337), (12, 16931), (24, 17162), (25, 17180), (29, 17258), (30, 17264), (31, 17267), (32, 17273), (34, 17384), (40, 17696), (41, 17750), (43, 17768), (44, 17783), (45, 17843), (47, 18044), (48, 18074), (49, 18095), (51, 18158), (52, 18176), (62, 18428), (68, 18488), (74, 18629), (77, 18674), (80, 18845), (87, 19013),

Gene: Lizalica_20 Start: 16031, Stop: 19048, Start Num: 4

Candidate Starts for Lizalica_20:

(Start: 4 @16031 has 8 MA's), (6, 16094), (7, 16148), (8, 16178), (9, 16322), (13, 16940), (15, 16952), (19, 16997), (23, 17072), (27, 17222), (30, 17294), (34, 17414), (38, 17633), (39, 17684), (41, 17780), (42, 17783), (43, 17798), (45, 17873), (46, 17951), (47, 18074), (48, 18104), (49, 18125), (52, 18206), (56, 18278), (62, 18458), (68, 18518), (74, 18659), (77, 18704), (80, 18875), (87, 19043),

Gene: Mudpuppy_21 Start: 16045, Stop: 19062, Start Num: 4

Candidate Starts for Mudpuppy_21:

(Start: 4 @16045 has 8 MA's), (6, 16108), (8, 16192), (9, 16336), (10, 16837), (13, 16954), (15, 16966), (23, 17086), (26, 17230), (27, 17236), (34, 17428), (38, 17647), (39, 17698), (41, 17794), (42, 17797), (43, 17812), (44, 17827), (45, 17887), (46, 17965), (47, 18088), (49, 18139), (52, 18220), (62, 18472), (68, 18532), (74, 18673), (77, 18718), (80, 18889), (87, 19057),

Gene: Powerpuff_20 Start: 16097, Stop: 19069, Start Num: 4

Candidate Starts for Powerpuff_20:

(Start: 4 @16097 has 8 MA's), (6, 16160), (8, 16244), (9, 16388), (12, 16982), (24, 17213), (25, 17231), (29, 17309), (30, 17315), (31, 17318), (32, 17324), (34, 17435), (40, 17747), (41, 17801), (42, 17804), (43, 17819), (44, 17834), (45, 17894), (47, 18095), (48, 18125), (49, 18146), (52, 18227), (62, 18479), (68, 18539), (74, 18680), (77, 18725), (80, 18896), (87, 19064),

Gene: Simpson_22 Start: 16046, Stop: 19063, Start Num: 4

Candidate Starts for Simpson_22:

(Start: 4 @16046 has 8 MA's), (6, 16109), (8, 16193), (9, 16337), (13, 16955), (23, 17087), (27, 17237), (34, 17429), (41, 17795), (42, 17798), (43, 17813), (44, 17828), (45, 17888), (47, 18089), (48, 18119), (49, 18140), (52, 18221), (62, 18473), (68, 18533), (74, 18674), (77, 18719), (80, 18890), (87, 19058),

Gene: Tbone_20 Start: 16050, Stop: 19067, Start Num: 4

Candidate Starts for Tbone_20:

(Start: 4 @16050 has 8 MA's), (6, 16113), (8, 16197), (9, 16341), (10, 16842), (13, 16959), (15, 16971), (23, 17091), (26, 17235), (27, 17241), (34, 17433), (38, 17652), (39, 17703), (41, 17799), (42, 17802), (43, 17817), (44, 17832), (45, 17892), (46, 17970), (47, 18093), (49, 18144), (52, 18225), (54, 18279), (61, 18402), (65, 18516), (68, 18537), (74, 18678), (77, 18723), (80, 18894), (87, 19062),

Gene: Tutumahutu_20 Start: 16097, Stop: 19069, Start Num: 4

Candidate Starts for Tutumahutu_20:

(Start: 4 @16097 has 8 MA's), (6, 16160), (8, 16244), (9, 16388), (12, 16982), (24, 17213), (25, 17231), (29, 17309), (30, 17315), (31, 17318), (32, 17324), (34, 17435), (40, 17747), (41, 17801), (42, 17804), (43, 17819), (44, 17834), (45, 17894), (47, 18095), (48, 18125), (49, 18146), (51, 18209), (52, 18227), (62, 18479), (68, 18539), (74, 18680), (77, 18725), (80, 18896), (87, 19064),

Gene: Warda_20 Start: 16042, Stop: 19059, Start Num: 4

Candidate Starts for Warda_20:

(Start: 4 @16042 has 8 MA's), (6, 16105), (8, 16189), (9, 16333), (10, 16834), (13, 16951), (15, 16963), (23, 17083), (26, 17227), (27, 17233), (34, 17425), (38, 17644), (39, 17695), (41, 17791), (42, 17794), (43, 17809), (44, 17824), (45, 17884), (47, 18085), (49, 18136), (52, 18217), (62, 18469), (68, 18529), (74, 18670), (77, 18715), (80, 18886), (87, 19054),

Gene: YesChef_20 Start: 16097, Stop: 19069, Start Num: 4

Candidate Starts for YesChef_20:

(Start: 4 @16097 has 8 MA's), (6, 16160), (8, 16244), (9, 16388), (12, 16982), (24, 17213), (25, 17231), (29, 17309), (30, 17315), (31, 17318), (32, 17324), (34, 17435), (40, 17747), (41, 17801), (42, 17804), (43, 17819), (44, 17834), (45, 17894), (47, 18095), (48, 18125), (49, 18146), (52, 18227), (62, 18479), (68, 18539), (70, 18548), (74, 18680), (77, 18725), (80, 18896), (87, 19064),