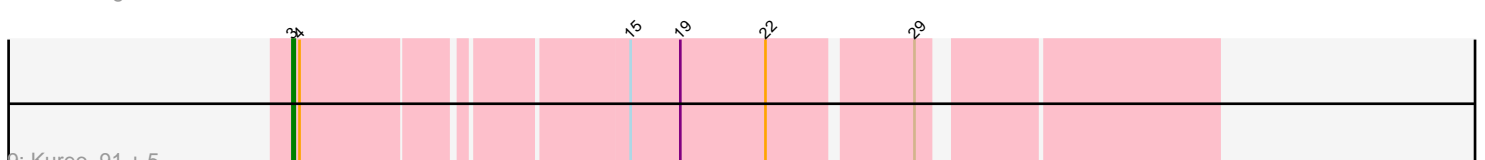
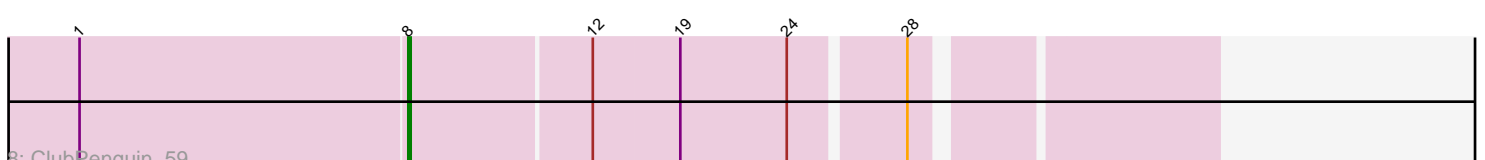
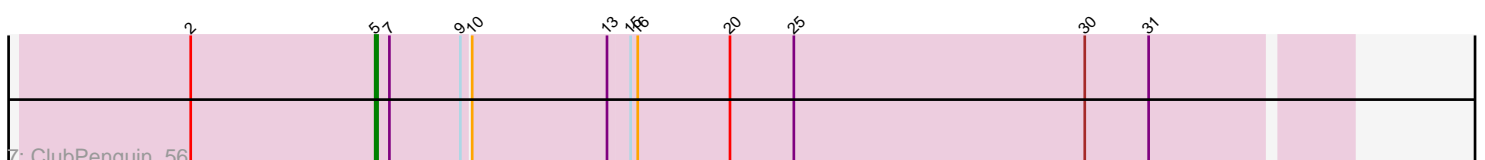
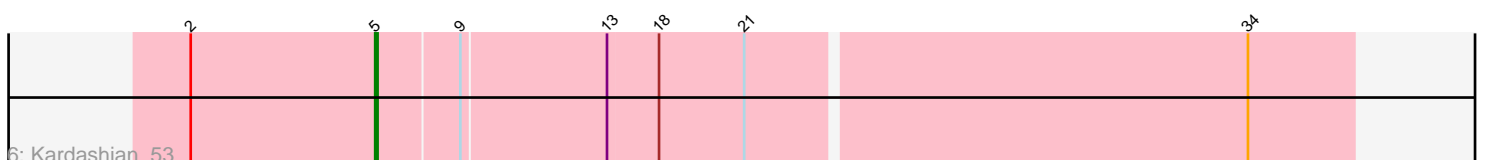
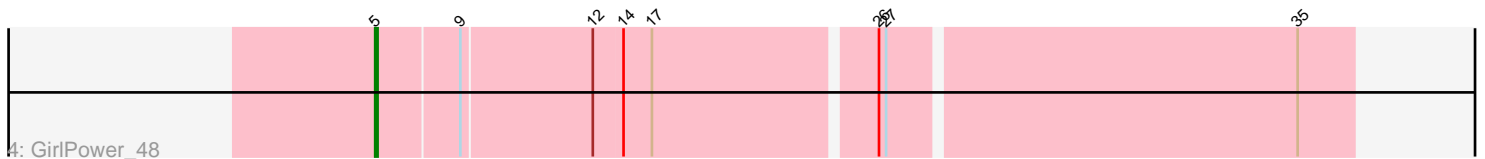
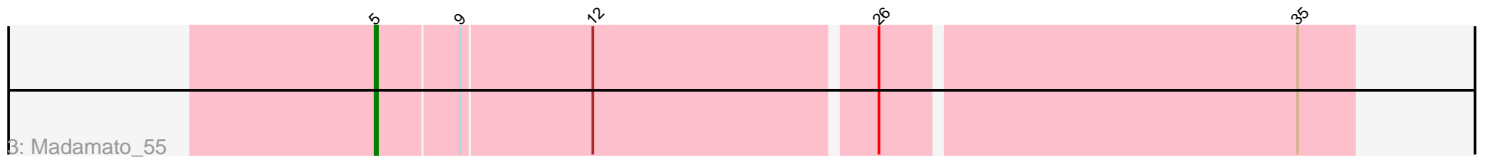
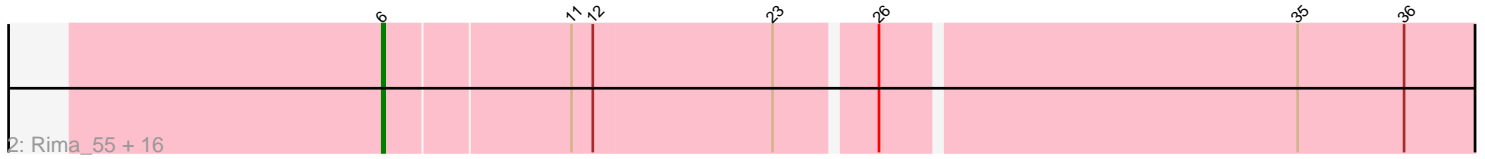
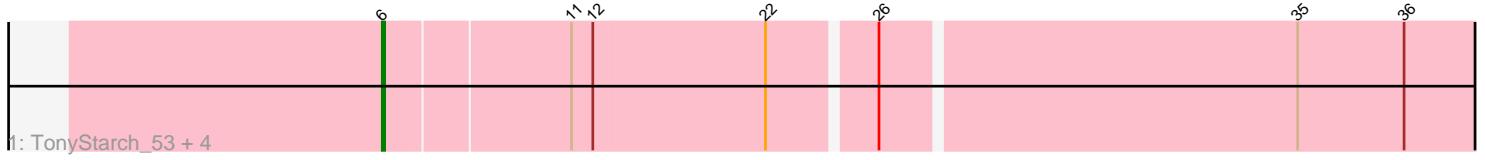


Pham 308855



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 308855 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308855 has 41 members, 6 are drafts.

Phages represented in each track:

- Track 1 : TonyStarch_53, TaidaOne_54, FidgetOrca_54, TieDye_53, CherryBlossom_54
- Track 2 : Rima_55, Esketit_54, Meibysrarus_52, HazuAndZazu_53, Jaylociraptor_54, Soshi_53, FrodoSwaggins_54, Maya_54, DrGrey_53, Hoshi_53, Namu_55, Espio_54, OlympicHelado_54, Indigenous_54, Spectropatronm_54, Popy_54, IceWarrior_53
- Track 3 : Madamoto_55
- Track 4 : GirlPower_48
- Track 5 : Thiqqums_53, FromIndy_53, CricKo_53, Rainydai_51, Regigigas_54, SendItCS_49, Miek_50
- Track 6 : Kardashian_53
- Track 7 : ClubPenguin_56
- Track 8 : ClubPenguin_59
- Track 9 : Kureo_91, JeNeSaisPas_87, Gandionco_89, Paella_93, Qui_93, Marianna39_90
- Track 10 : Elver_92

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

The start number called the most often in the published annotations is 6, it was called in 22 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CherryBlossom_54, DrGrey_53, Esketit_54, Espio_54, FidgetOrca_54, FrodoSwaggins_54, HazuAndZazu_53, Hoshi_53, IceWarrior_53, Indigenous_54, Jaylociraptor_54, Maya_54, Meibysrarus_52, Namu_55, OlympicHelado_54, Popy_54, Rima_55, Soshi_53, Spectropatronm_54, TaidaOne_54, TieDye_53, TonyStarch_53,

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

-

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

- ClubPenguin_56, ClubPenguin_59, CricKo_53, Elver_92, FromIndy_53, Gandionco_89, GirlPower_48, JeNeSaisPas_87, Kardashian_53, Kureo_91, Madamato_55, Marianna39_90, Miek_50, Paella_93, Qui_93, Rainydai_51, Regigigas_54, SendItCS_49, Thiqqums_53,

Summary by start number:

Start 3:

- Found in 7 of 41 (17.1%) of genes in pham
- Manual Annotations of this start: 2 of 35
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Gandionco_89 (FK), JeNeSaisPas_87 (FK), Kureo_91 (FK), Marianna39_90 (FK), Paella_93 (FK), Qui_93 (FK),

Start 4:

- Found in 7 of 41 (17.1%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Elver_92 (FK),

Start 5:

- Found in 11 of 41 (26.8%) of genes in pham
- Manual Annotations of this start: 9 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ClubPenguin_56 (BI7), CricKo_53 (BI4), FromIndy_53 (BI4), GirlPower_48 (BI1), Kardashian_53 (BI6), Madamato_55 (BI1), Miek_50 (BI4), Rainydai_51 (BI4), Regigigas_54 (BI4), SendItCS_49 (BI4), Thiqqums_53 (BI4),

Start 6:

- Found in 22 of 41 (53.7%) of genes in pham
- Manual Annotations of this start: 22 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CherryBlossom_54 (BI1), DrGrey_53 (BI1), Esketit_54 (BI1), Espio_54 (BI1), FidgetOrca_54 (BI1), FrodoSwaggins_54 (BI1), HazuAndZazu_53 (BI1), Hoshi_53 (BI1), IceWarrior_53 (BI1), Indigenous_54 (BI1), Jaylociraptor_54 (BI1), Maya_54 (BI1), Meibysrarus_52 (BI1), Namu_55 (BI1), OlympicHelado_54 (BI1), Popy_54 (BI1), Rima_55 (BI1), Soshi_53 (BI1), Spectropatronm_54 (BI1), TaidaOne_54 (BI1), TieDye_53 (BI1), TonyStarch_53 (BI1),

Start 8:

- Found in 1 of 41 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ClubPenguin_59 (BI7),

Summary by clusters:

There are 5 clusters represented in this pham: BI6, BI7, BI4, FK, BI1,

Info for manual annotations of cluster BI1:

- Start number 5 was manually annotated 2 times for cluster BI1.

- Start number 6 was manually annotated 22 times for cluster BI1.

Info for manual annotations of cluster BI4:

- Start number 5 was manually annotated 5 times for cluster BI4.

Info for manual annotations of cluster BI6:

- Start number 5 was manually annotated 1 time for cluster BI6.

Info for manual annotations of cluster BI7:

- Start number 5 was manually annotated 1 time for cluster BI7.
- Start number 8 was manually annotated 1 time for cluster BI7.

Info for manual annotations of cluster FK:

- Start number 3 was manually annotated 2 times for cluster FK.
- Start number 4 was manually annotated 1 time for cluster FK.

Gene Information:

Gene: CherryBlossom_54 Start: 34733, Stop: 35191, Start Num: 6

Candidate Starts for CherryBlossom_54:

(Start: 6 @34733 has 22 MA's), (11, 34808), (12, 34817), (22, 34889), (26, 34931), (35, 35102), (36, 35147),

Gene: ClubPenguin_56 Start: 35038, Stop: 35442, Start Num: 5

Candidate Starts for ClubPenguin_56:

(2, 34960), (Start: 5 @35038 has 9 MA's), (7, 35044), (9, 35074), (10, 35077), (13, 35134), (15, 35143), (16, 35146), (20, 35185), (25, 35212), (30, 35335), (31, 35362),

Gene: ClubPenguin_59 Start: 35772, Stop: 36089, Start Num: 8

Candidate Starts for ClubPenguin_59:

(1, 35637), (Start: 8 @35772 has 1 MA's), (12, 35847), (19, 35883), (24, 35928), (28, 35973),

Gene: CricKo_53 Start: 33631, Stop: 34023, Start Num: 5

Candidate Starts for CricKo_53:

(Start: 5 @33631 has 9 MA's), (32, 33940), (33, 33958), (34, 33979), (35, 34000),

Gene: DrGrey_53 Start: 35098, Stop: 35556, Start Num: 6

Candidate Starts for DrGrey_53:

(Start: 6 @35098 has 22 MA's), (11, 35173), (12, 35182), (23, 35257), (26, 35296), (35, 35467), (36, 35512),

Gene: Elver_92 Start: 52301, Stop: 52654, Start Num: 4

Candidate Starts for Elver_92:

(Start: 3 @52298 has 2 MA's), (Start: 4 @52301 has 1 MA's), (15, 52424), (19, 52445), (22, 52481), (29, 52538),

Gene: Esketit_54 Start: 34843, Stop: 35301, Start Num: 6

Candidate Starts for Esketit_54:

(Start: 6 @34843 has 22 MA's), (11, 34918), (12, 34927), (23, 35002), (26, 35041), (35, 35212), (36, 35257),

Gene: Espio_54 Start: 35493, Stop: 35951, Start Num: 6
Candidate Starts for Espio_54:
(Start: 6 @35493 has 22 MA's), (11, 35568), (12, 35577), (23, 35652), (26, 35691), (35, 35862), (36, 35907),

Gene: FidgetOrca_54 Start: 34836, Stop: 35294, Start Num: 6
Candidate Starts for FidgetOrca_54:
(Start: 6 @34836 has 22 MA's), (11, 34911), (12, 34920), (22, 34992), (26, 35034), (35, 35205), (36, 35250),

Gene: FrodoSwaggins_54 Start: 35492, Stop: 35950, Start Num: 6
Candidate Starts for FrodoSwaggins_54:
(Start: 6 @35492 has 22 MA's), (11, 35567), (12, 35576), (23, 35651), (26, 35690), (35, 35861), (36, 35906),

Gene: FromIndy_53 Start: 33237, Stop: 33629, Start Num: 5
Candidate Starts for FromIndy_53:
(Start: 5 @33237 has 9 MA's), (32, 33546), (33, 33564), (34, 33585), (35, 33606),

Gene: Gandionco_89 Start: 51151, Stop: 51510, Start Num: 3
Candidate Starts for Gandionco_89:
(Start: 3 @51151 has 2 MA's), (Start: 4 @51154 has 1 MA's), (15, 51280), (19, 51301), (22, 51337), (29, 51394),

Gene: GirlPower_48 Start: 35094, Stop: 35489, Start Num: 5
Candidate Starts for GirlPower_48:
(Start: 5 @35094 has 9 MA's), (9, 35127), (12, 35181), (14, 35193), (17, 35205), (26, 35295), (27, 35298), (35, 35466),

Gene: HazuAndZazu_53 Start: 35093, Stop: 35551, Start Num: 6
Candidate Starts for HazuAndZazu_53:
(Start: 6 @35093 has 22 MA's), (11, 35168), (12, 35177), (23, 35252), (26, 35291), (35, 35462), (36, 35507),

Gene: Hoshi_53 Start: 34440, Stop: 34898, Start Num: 6
Candidate Starts for Hoshi_53:
(Start: 6 @34440 has 22 MA's), (11, 34515), (12, 34524), (23, 34599), (26, 34638), (35, 34809), (36, 34854),

Gene: IceWarrior_53 Start: 34522, Stop: 34980, Start Num: 6
Candidate Starts for IceWarrior_53:
(Start: 6 @34522 has 22 MA's), (11, 34597), (12, 34606), (23, 34681), (26, 34720), (35, 34891), (36, 34936),

Gene: Indigenous_54 Start: 34837, Stop: 35295, Start Num: 6
Candidate Starts for Indigenous_54:
(Start: 6 @34837 has 22 MA's), (11, 34912), (12, 34921), (23, 34996), (26, 35035), (35, 35206), (36, 35251),

Gene: Jaylociraptor_54 Start: 34836, Stop: 35294, Start Num: 6
Candidate Starts for Jaylociraptor_54:
(Start: 6 @34836 has 22 MA's), (11, 34911), (12, 34920), (23, 34995), (26, 35034), (35, 35205), (36, 35250),

Gene: JeNeSaisPas_87 Start: 51728, Stop: 52084, Start Num: 3
Candidate Starts for JeNeSaisPas_87:
(Start: 3 @51728 has 2 MA's), (Start: 4 @51731 has 1 MA's), (15, 51854), (19, 51875), (22, 51911),
(29, 51968),

Gene: Kardashian_53 Start: 35575, Stop: 35976, Start Num: 5
Candidate Starts for Kardashian_53:
(2, 35497), (Start: 5 @35575 has 9 MA's), (9, 35608), (13, 35668), (18, 35689), (21, 35725), (34,
35932),

Gene: Kureo_91 Start: 51305, Stop: 51664, Start Num: 3
Candidate Starts for Kureo_91:
(Start: 3 @51305 has 2 MA's), (Start: 4 @51308 has 1 MA's), (15, 51434), (19, 51455), (22, 51491),
(29, 51548),

Gene: Madamoto_55 Start: 34880, Stop: 35275, Start Num: 5
Candidate Starts for Madamoto_55:
(Start: 5 @34880 has 9 MA's), (9, 34913), (12, 34967), (26, 35081), (35, 35252),

Gene: Marianna39_90 Start: 51723, Stop: 52079, Start Num: 3
Candidate Starts for Marianna39_90:
(Start: 3 @51723 has 2 MA's), (Start: 4 @51726 has 1 MA's), (15, 51849), (19, 51870), (22, 51906),
(29, 51963),

Gene: Maya_54 Start: 34850, Stop: 35308, Start Num: 6
Candidate Starts for Maya_54:
(Start: 6 @34850 has 22 MA's), (11, 34925), (12, 34934), (23, 35009), (26, 35048), (35, 35219), (36,
35264),

Gene: Meibysrarus_52 Start: 34213, Stop: 34671, Start Num: 6
Candidate Starts for Meibysrarus_52:
(Start: 6 @34213 has 22 MA's), (11, 34288), (12, 34297), (23, 34372), (26, 34411), (35, 34582), (36,
34627),

Gene: Miek_50 Start: 32956, Stop: 33348, Start Num: 5
Candidate Starts for Miek_50:
(Start: 5 @32956 has 9 MA's), (32, 33265), (33, 33283), (34, 33304), (35, 33325),

Gene: Namo_55 Start: 35181, Stop: 35639, Start Num: 6
Candidate Starts for Namo_55:
(Start: 6 @35181 has 22 MA's), (11, 35256), (12, 35265), (23, 35340), (26, 35379), (35, 35550), (36,
35595),

Gene: OlympicHelado_54 Start: 34864, Stop: 35322, Start Num: 6
Candidate Starts for OlympicHelado_54:
(Start: 6 @34864 has 22 MA's), (11, 34939), (12, 34948), (23, 35023), (26, 35062), (35, 35233), (36,
35278),

Gene: Paella_93 Start: 52888, Stop: 53244, Start Num: 3
Candidate Starts for Paella_93:
(Start: 3 @52888 has 2 MA's), (Start: 4 @52891 has 1 MA's), (15, 53014), (19, 53035), (22, 53071),
(29, 53128),

Gene: Popy_54 Start: 35492, Stop: 35950, Start Num: 6
Candidate Starts for Popy_54:
(Start: 6 @35492 has 22 MA's), (11, 35567), (12, 35576), (23, 35651), (26, 35690), (35, 35861), (36, 35906),

Gene: Qui_93 Start: 52888, Stop: 53244, Start Num: 3
Candidate Starts for Qui_93:
(Start: 3 @52888 has 2 MA's), (Start: 4 @52891 has 1 MA's), (15, 53014), (19, 53035), (22, 53071), (29, 53128),

Gene: Rainydai_51 Start: 33631, Stop: 34023, Start Num: 5
Candidate Starts for Rainydai_51:
(Start: 5 @33631 has 9 MA's), (32, 33940), (33, 33958), (34, 33979), (35, 34000),

Gene: Regigigas_54 Start: 33632, Stop: 34024, Start Num: 5
Candidate Starts for Regigigas_54:
(Start: 5 @33632 has 9 MA's), (32, 33941), (33, 33959), (34, 33980), (35, 34001),

Gene: Rima_55 Start: 35181, Stop: 35639, Start Num: 6
Candidate Starts for Rima_55:
(Start: 6 @35181 has 22 MA's), (11, 35256), (12, 35265), (23, 35340), (26, 35379), (35, 35550), (36, 35595),

Gene: SendItCS_49 Start: 32944, Stop: 33336, Start Num: 5
Candidate Starts for SendItCS_49:
(Start: 5 @32944 has 9 MA's), (32, 33253), (33, 33271), (34, 33292), (35, 33313),

Gene: Soshi_53 Start: 35111, Stop: 35569, Start Num: 6
Candidate Starts for Soshi_53:
(Start: 6 @35111 has 22 MA's), (11, 35186), (12, 35195), (23, 35270), (26, 35309), (35, 35480), (36, 35525),

Gene: Spectropatronm_54 Start: 34843, Stop: 35301, Start Num: 6
Candidate Starts for Spectropatronm_54:
(Start: 6 @34843 has 22 MA's), (11, 34918), (12, 34927), (23, 35002), (26, 35041), (35, 35212), (36, 35257),

Gene: TaidaOne_54 Start: 35349, Stop: 35807, Start Num: 6
Candidate Starts for TaidaOne_54:
(Start: 6 @35349 has 22 MA's), (11, 35424), (12, 35433), (22, 35505), (26, 35547), (35, 35718), (36, 35763),

Gene: Thiqqums_53 Start: 33631, Stop: 34023, Start Num: 5
Candidate Starts for Thiqqums_53:
(Start: 5 @33631 has 9 MA's), (32, 33940), (33, 33958), (34, 33979), (35, 34000),

Gene: TieDye_53 Start: 34437, Stop: 34895, Start Num: 6
Candidate Starts for TieDye_53:
(Start: 6 @34437 has 22 MA's), (11, 34512), (12, 34521), (22, 34593), (26, 34635), (35, 34806), (36, 34851),

Gene: TonyStarch_53 Start: 34585, Stop: 35043, Start Num: 6

Candidate Starts for TonyStarch_53:

(Start: 6 @34585 has 22 MA's), (11, 34660), (12, 34669), (22, 34741), (26, 34783), (35, 34954), (36, 34999),