

Pham 325257



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 325257 Report

This analysis was run 09/05/26 on database version 662.

Pham number 325257 has 57 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Rudy_61, Casend_64, Teehee_64, Zhafia_66, Jehoshaphat_65, Llemily_63, Sillytadpoles_64, Phabia_63, DonaldDuck_63, Quammi_61, Viceroy_62, Wheelie_63, Wayne3_65
- Track 2 : Grassboy_66, Kyva_66
- Track 3 : Lonelysoil_61, Blab_61, MorillMayhem_65
- Track 4 : SlySloth_65, BabyDotz_63, Rowlf_60, Statler_66
- Track 5 : Wilca_69, Pepe25_67, Spiderpig_69, BirdInFrench_69
- Track 6 : OneinaGillian_68, CandC_67, Tempo_70, Fregley_70
- Track 7 : Marcie_76
- Track 8 : StrawberryJamm_68, Hyperion_63, Gazebo_62, Mashley_63
- Track 9 : Altheas_68
- Track 10 : Fransoyer_64
- Track 11 : Squash_66
- Track 12 : Mila11_65
- Track 13 : RobinRose_71, KillerQueen_72, Romm_71
- Track 14 : WheelerS25_70
- Track 15 : SallyK_65
- Track 16 : Tissue_65, Judebell_64, Nike_65
- Track 17 : Phinky_73
- Track 18 : Mentos_65
- Track 19 : Kelcole_69
- Track 20 : Namago_64
- Track 21 : ZestyBestie_61, EverythinBagel_62, FrankDeliGuy_60
- Track 22 : SadLad_67
- Track 23 : Zagie_64
- Track 24 : BaconCheese_66

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 34 of the 53 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BaconCheese_66, Blab_61, Casend_64, DonaldDuck_63, EverythinBagel_62, FrankDeliGuy_60, Gazebo_62, Grassboy_66, Hyperion_63, Jehoshaphat_65, Judebell_64, Kyva_66, Llemily_63, Lonelysoil_61, Mashley_63, Mila11_65, MorillMayhem_65, Namago_64, Nike_65, Phabia_63, Quammi_61, Rudy_61, SallyK_65, Sillytadpoles_64, Squash_66, StrawberryJamm_68, Teehee_64, Tissue_65, Viceroy_62, Wayne3_65, WheelerS25_70, Wheelie_63, Zagie_64, ZestyBestie_61, Zhafia_66,

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

- Fransoyer_64, SadLad_67,

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

- Altheas_68, BabyDotz_63, BirdInFrench_69, CandC_67, Fregley_70, Kelcole_69, KillerQueen_72, Marcie_76, Mentos_65, OneinaGillian_68, Pepe25_67, Phinky_73, RobinRose_71, Romm_71, Rowlf_60, SlySloth_65, Spiderpig_69, Statler_66, Tempo_70, Wilca_69,

Summary by start number:

Start 4:

- Found in 13 of 57 (22.8%) of genes in pham
- Manual Annotations of this start: 11 of 53
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BirdInFrench_69 (EG), CandC_67 (EG), Fregley_70 (EG), Kelcole_69 (EG), KillerQueen_72 (EG), Marcie_76 (EG), OneinaGillian_68 (EG), Pepe25_67 (EG), RobinRose_71 (EG), Romm_71 (EG), Spiderpig_69 (EG), Tempo_70 (EG), Wilca_69 (EG),

Start 5:

- Found in 7 of 57 (12.3%) of genes in pham
- Manual Annotations of this start: 6 of 53
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altheas_68 (EG), BabyDotz_63 (EG), Mentos_65 (EG), Phinky_73 (EG), Rowlf_60 (EG), SlySloth_65 (EG), Statler_66 (EG),

Start 6:

- Found in 37 of 57 (64.9%) of genes in pham
- Manual Annotations of this start: 34 of 53
- Called 94.6% of time when present
- Phage (with cluster) where this start called: BaconCheese_66 (EG), Blab_61 (EG), Casend_64 (EG), DonaldDuck_63 (EG), EverythinBagel_62 (EG), FrankDeliGuy_60 (EG), Gazebo_62 (EG), Grassboy_66 (EG), Hyperion_63 (EG), Jehoshaphat_65 (EG), Judebell_64 (EG), Kyva_66 (EG), Llemily_63 (EG), Lonelysoil_61 (EG), Mashley_63 (EG), Mila11_65 (EG), MorillMayhem_65 (EG), Namago_64 (EG), Nike_65 (EG), Phabia_63 (EG), Quammi_61 (EG), Rudy_61 (EG), SallyK_65 (EG), Sillytadpoles_64 (EG), Squash_66 (EG), StrawberryJamm_68 (EG), Teehee_64 (EG), Tissue_65 (EG), Viceroy_62 (EG), Wayne3_65 (EG), WheelerS25_70 (EG), Wheelie_63 (EG), Zagie_64 (EG), ZestyBestie_61 (EG), Zhafia_66 (EG),

Start 7:

- Found in 6 of 57 (10.5%) of genes in pham
- Manual Annotations of this start: 2 of 53

- Called 33.3% of time when present
- Phage (with cluster) where this start called: Fransoyer_64 (EG), SadLad_67 (EG),

Summary by clusters:

There is one cluster represented in this pham: EG

Info for manual annotations of cluster EG:

- Start number 4 was manually annotated 11 times for cluster EG.
- Start number 5 was manually annotated 6 times for cluster EG.
- Start number 6 was manually annotated 34 times for cluster EG.
- Start number 7 was manually annotated 2 times for cluster EG.

Gene Information:

Gene: Altheas_68 Start: 45402, Stop: 45145, Start Num: 5

Candidate Starts for Altheas_68:

(3, 45420), (Start: 5 @45402 has 6 MA's), (12, 45351), (13, 45348), (19, 45294), (22, 45264), (24, 45255), (28, 45237), (35, 45204),

Gene: BabyDotz_63 Start: 45425, Stop: 45147, Start Num: 5

Candidate Starts for BabyDotz_63:

(3, 45443), (Start: 5 @45425 has 6 MA's), (12, 45374), (13, 45371), (24, 45278), (28, 45260), (30, 45248), (34, 45209), (41, 45164), (42, 45161),

Gene: BaconCheese_66 Start: 46007, Stop: 45753, Start Num: 6

Candidate Starts for BaconCheese_66:

(1, 46109), (Start: 6 @46007 has 34 MA's), (8, 45992), (16, 45923), (17, 45914), (18, 45908), (21, 45884), (26, 45860), (27, 45857), (29, 45848), (33, 45827), (42, 45767),

Gene: BirdInFrench_69 Start: 45105, Stop: 44830, Start Num: 4

Candidate Starts for BirdInFrench_69:

(Start: 4 @45105 has 11 MA's), (Start: 7 @45093 has 2 MA's), (9, 45075), (15, 45042), (40, 44859), (43, 44841),

Gene: Blab_61 Start: 44658, Stop: 44404, Start Num: 6

Candidate Starts for Blab_61:

(3, 44679), (Start: 6 @44658 has 34 MA's), (8, 44643), (16, 44574), (17, 44565), (18, 44559), (21, 44535), (26, 44511), (27, 44508), (33, 44478), (42, 44418),

Gene: CandC_67 Start: 44307, Stop: 44053, Start Num: 4

Candidate Starts for CandC_67:

(Start: 4 @44307 has 11 MA's), (15, 44244), (38, 44073),

Gene: Casend_64 Start: 44920, Stop: 44666, Start Num: 6

Candidate Starts for Casend_64:

(1, 45016), (Start: 6 @44920 has 34 MA's), (8, 44905), (11, 44878), (16, 44836), (17, 44827), (18, 44821), (21, 44797), (26, 44773), (27, 44770), (29, 44761), (33, 44740), (42, 44680),

Gene: DonaldDuck_63 Start: 44269, Stop: 44015, Start Num: 6

Candidate Starts for DonaldDuck_63:

(1, 44365), (Start: 6 @44269 has 34 MA's), (8, 44254), (11, 44227), (16, 44185), (17, 44176), (18, 44170), (21, 44146), (26, 44122), (27, 44119), (29, 44110), (33, 44089), (42, 44029),

Gene: EverythinBagel_62 Start: 44756, Stop: 44505, Start Num: 6

Candidate Starts for EverythinBagel_62:

(1, 44852), (Start: 6 @44756 has 34 MA's), (8, 44741), (16, 44672), (17, 44663), (18, 44657), (21, 44633), (26, 44609), (29, 44600), (32, 44588), (33, 44579),

Gene: FrankDeliGuy_60 Start: 44370, Stop: 44119, Start Num: 6

Candidate Starts for FrankDeliGuy_60:

(1, 44466), (Start: 6 @44370 has 34 MA's), (8, 44355), (16, 44286), (17, 44277), (18, 44271), (21, 44247), (26, 44223), (29, 44214), (32, 44202), (33, 44193),

Gene: Fransoyer_64 Start: 46369, Stop: 46097, Start Num: 7

Candidate Starts for Fransoyer_64:

(Start: 6 @46372 has 34 MA's), (Start: 7 @46369 has 2 MA's), (20, 46252), (24, 46225), (39, 46126),

Gene: Fregley_70 Start: 44656, Stop: 44402, Start Num: 4

Candidate Starts for Fregley_70:

(Start: 4 @44656 has 11 MA's), (15, 44593), (38, 44422),

Gene: Gazebo_62 Start: 44711, Stop: 44463, Start Num: 6

Candidate Starts for Gazebo_62:

(3, 44732), (Start: 6 @44711 has 34 MA's), (8, 44696), (16, 44627), (17, 44618), (18, 44612), (21, 44588), (26, 44564), (27, 44561), (33, 44537), (42, 44477),

Gene: Grassboy_66 Start: 45240, Stop: 44974, Start Num: 6

Candidate Starts for Grassboy_66:

(3, 45261), (Start: 6 @45240 has 34 MA's), (10, 45207), (14, 45186), (31, 45063), (37, 45006),

Gene: Hyperion_63 Start: 44885, Stop: 44637, Start Num: 6

Candidate Starts for Hyperion_63:

(3, 44906), (Start: 6 @44885 has 34 MA's), (8, 44870), (16, 44801), (17, 44792), (18, 44786), (21, 44762), (26, 44738), (27, 44735), (33, 44711), (42, 44651),

Gene: Jehoshaphat_65 Start: 45188, Stop: 44934, Start Num: 6

Candidate Starts for Jehoshaphat_65:

(1, 45284), (Start: 6 @45188 has 34 MA's), (8, 45173), (11, 45146), (16, 45104), (17, 45095), (18, 45089), (21, 45065), (26, 45041), (27, 45038), (29, 45029), (33, 45008), (42, 44948),

Gene: Judebell_64 Start: 44542, Stop: 44279, Start Num: 6

Candidate Starts for Judebell_64:

(3, 44563), (Start: 6 @44542 has 34 MA's), (10, 44509), (14, 44488), (25, 44392), (31, 44371), (36, 44332),

Gene: Kelcole_69 Start: 44879, Stop: 44604, Start Num: 4

Candidate Starts for Kelcole_69:

(Start: 4 @44879 has 11 MA's), (15, 44816), (43, 44615),

Gene: KillerQueen_72 Start: 45114, Stop: 44839, Start Num: 4

Candidate Starts for KillerQueen_72:

(Start: 4 @45114 has 11 MA's), (15, 45051), (40, 44868), (43, 44850),

Gene: Kyva_66 Start: 45263, Stop: 44997, Start Num: 6

Candidate Starts for Kyva_66:

(3, 45284), (Start: 6 @45263 has 34 MA's), (10, 45230), (14, 45209), (31, 45086), (37, 45029),

Gene: Llemily_63 Start: 43964, Stop: 43710, Start Num: 6

Candidate Starts for Llemily_63:

(1, 44060), (Start: 6 @43964 has 34 MA's), (8, 43949), (11, 43922), (16, 43880), (17, 43871), (18, 43865), (21, 43841), (26, 43817), (27, 43814), (29, 43805), (33, 43784), (42, 43724),

Gene: Lonelysoil_61 Start: 44016, Stop: 43762, Start Num: 6

Candidate Starts for Lonelysoil_61:

(3, 44037), (Start: 6 @44016 has 34 MA's), (8, 44001), (16, 43932), (17, 43923), (18, 43917), (21, 43893), (26, 43869), (27, 43866), (33, 43836), (42, 43776),

Gene: Marcie_76 Start: 45775, Stop: 45500, Start Num: 4

Candidate Starts for Marcie_76:

(Start: 4 @45775 has 11 MA's), (15, 45712), (40, 45529), (43, 45511),

Gene: Mashley_63 Start: 44698, Stop: 44450, Start Num: 6

Candidate Starts for Mashley_63:

(3, 44719), (Start: 6 @44698 has 34 MA's), (8, 44683), (16, 44614), (17, 44605), (18, 44599), (21, 44575), (26, 44551), (27, 44548), (33, 44524), (42, 44464),

Gene: Mentos_65 Start: 45830, Stop: 45552, Start Num: 5

Candidate Starts for Mentos_65:

(3, 45848), (Start: 5 @45830 has 6 MA's), (12, 45779), (13, 45776), (19, 45722), (24, 45683), (30, 45653), (34, 45614), (41, 45569), (42, 45566),

Gene: Mila11_65 Start: 46065, Stop: 45811, Start Num: 6

Candidate Starts for Mila11_65:

(1, 46161), (Start: 6 @46065 has 34 MA's), (8, 46050), (11, 46023), (16, 45981), (17, 45972), (18, 45966), (21, 45942), (26, 45918), (27, 45915), (33, 45885), (42, 45825),

Gene: MorillMayhem_65 Start: 45076, Stop: 44822, Start Num: 6

Candidate Starts for MorillMayhem_65:

(3, 45097), (Start: 6 @45076 has 34 MA's), (8, 45061), (16, 44992), (17, 44983), (18, 44977), (21, 44953), (26, 44929), (27, 44926), (33, 44896), (42, 44836),

Gene: Namago_64 Start: 44152, Stop: 43904, Start Num: 6

Candidate Starts for Namago_64:

(3, 44173), (Start: 6 @44152 has 34 MA's), (8, 44137), (16, 44068), (17, 44059), (18, 44053), (21, 44029), (23, 44020), (26, 44005), (27, 44002), (29, 43993), (33, 43978), (42, 43918),

Gene: Nike_65 Start: 45576, Stop: 45313, Start Num: 6

Candidate Starts for Nike_65:

(3, 45597), (Start: 6 @45576 has 34 MA's), (10, 45543), (14, 45522), (25, 45426), (31, 45405), (36, 45366),

Gene: OneinaGillian_68 Start: 44414, Stop: 44160, Start Num: 4

Candidate Starts for OneinaGillian_68:

(Start: 4 @44414 has 11 MA's), (15, 44351), (38, 44180),

Gene: Pepe25_67 Start: 44024, Stop: 43749, Start Num: 4

Candidate Starts for Pepe25_67:

(Start: 4 @44024 has 11 MA's), (Start: 7 @44012 has 2 MA's), (9, 43994), (15, 43961), (40, 43778), (43, 43760),

Gene: Phabia_63 Start: 44379, Stop: 44125, Start Num: 6

Candidate Starts for Phabia_63:

(1, 44475), (Start: 6 @44379 has 34 MA's), (8, 44364), (11, 44337), (16, 44295), (17, 44286), (18, 44280), (21, 44256), (26, 44232), (27, 44229), (29, 44220), (33, 44199), (42, 44139),

Gene: Phinky_73 Start: 46720, Stop: 46442, Start Num: 5

Candidate Starts for Phinky_73:

(3, 46738), (Start: 5 @46720 has 6 MA's), (12, 46669), (13, 46666), (19, 46612), (30, 46543), (34, 46504), (42, 46456),

Gene: Quammi_61 Start: 44079, Stop: 43825, Start Num: 6

Candidate Starts for Quammi_61:

(1, 44175), (Start: 6 @44079 has 34 MA's), (8, 44064), (11, 44037), (16, 43995), (17, 43986), (18, 43980), (21, 43956), (26, 43932), (27, 43929), (29, 43920), (33, 43899), (42, 43839),

Gene: RobinRose_71 Start: 45063, Stop: 44788, Start Num: 4

Candidate Starts for RobinRose_71:

(Start: 4 @45063 has 11 MA's), (15, 45000), (40, 44817), (43, 44799),

Gene: Romm_71 Start: 45060, Stop: 44785, Start Num: 4

Candidate Starts for Romm_71:

(Start: 4 @45060 has 11 MA's), (15, 44997), (40, 44814), (43, 44796),

Gene: Rowlf_60 Start: 44046, Stop: 43768, Start Num: 5

Candidate Starts for Rowlf_60:

(3, 44064), (Start: 5 @44046 has 6 MA's), (12, 43995), (13, 43992), (24, 43899), (28, 43881), (30, 43869), (34, 43830), (41, 43785), (42, 43782),

Gene: Rudy_61 Start: 44115, Stop: 43861, Start Num: 6

Candidate Starts for Rudy_61:

(1, 44211), (Start: 6 @44115 has 34 MA's), (8, 44100), (11, 44073), (16, 44031), (17, 44022), (18, 44016), (21, 43992), (26, 43968), (27, 43965), (29, 43956), (33, 43935), (42, 43875),

Gene: SadLad_67 Start: 47480, Stop: 47217, Start Num: 7

Candidate Starts for SadLad_67:

(Start: 6 @47483 has 34 MA's), (Start: 7 @47480 has 2 MA's), (8, 47468),

Gene: SallyK_65 Start: 45408, Stop: 45157, Start Num: 6

Candidate Starts for SallyK_65:

(3, 45429), (Start: 6 @45408 has 34 MA's), (8, 45393), (16, 45324), (17, 45315), (18, 45309), (21, 45285), (26, 45261), (29, 45252), (32, 45240), (33, 45231),

Gene: Sillytadpoles_64 Start: 43952, Stop: 43698, Start Num: 6

Candidate Starts for Sillytadpoles_64:

(1, 44048), (Start: 6 @43952 has 34 MA's), (8, 43937), (11, 43910), (16, 43868), (17, 43859), (18, 43853), (21, 43829), (26, 43805), (27, 43802), (29, 43793), (33, 43772), (42, 43712),

Gene: SlySloth_65 Start: 44693, Stop: 44415, Start Num: 5

Candidate Starts for SlySloth_65:

(3, 44711), (Start: 5 @44693 has 6 MA's), (12, 44642), (13, 44639), (24, 44546), (28, 44528), (30, 44516), (34, 44477), (41, 44432), (42, 44429),

Gene: Spiderpig_69 Start: 45094, Stop: 44819, Start Num: 4

Candidate Starts for Spiderpig_69:

(Start: 4 @45094 has 11 MA's), (Start: 7 @45082 has 2 MA's), (9, 45064), (15, 45031), (40, 44848), (43, 44830),

Gene: Squash_66 Start: 45411, Stop: 45148, Start Num: 6

Candidate Starts for Squash_66:

(2, 45513), (3, 45432), (Start: 6 @45411 has 34 MA's), (10, 45378), (14, 45357), (25, 45261), (31, 45240), (36, 45201),

Gene: Statler_66 Start: 44762, Stop: 44484, Start Num: 5

Candidate Starts for Statler_66:

(3, 44780), (Start: 5 @44762 has 6 MA's), (12, 44711), (13, 44708), (24, 44615), (28, 44597), (30, 44585), (34, 44546), (41, 44501), (42, 44498),

Gene: StrawberryJamm_68 Start: 44449, Stop: 44201, Start Num: 6

Candidate Starts for StrawberryJamm_68:

(3, 44470), (Start: 6 @44449 has 34 MA's), (8, 44434), (16, 44365), (17, 44356), (18, 44350), (21, 44326), (26, 44302), (27, 44299), (33, 44275), (42, 44215),

Gene: Teehee_64 Start: 45185, Stop: 44931, Start Num: 6

Candidate Starts for Teehee_64:

(1, 45281), (Start: 6 @45185 has 34 MA's), (8, 45170), (11, 45143), (16, 45101), (17, 45092), (18, 45086), (21, 45062), (26, 45038), (27, 45035), (29, 45026), (33, 45005), (42, 44945),

Gene: Tempo_70 Start: 45003, Stop: 44749, Start Num: 4

Candidate Starts for Tempo_70:

(Start: 4 @45003 has 11 MA's), (15, 44940), (38, 44769),

Gene: Tissue_65 Start: 45109, Stop: 44846, Start Num: 6

Candidate Starts for Tissue_65:

(3, 45130), (Start: 6 @45109 has 34 MA's), (10, 45076), (14, 45055), (25, 44959), (31, 44938), (36, 44899),

Gene: Viceroy_62 Start: 44085, Stop: 43831, Start Num: 6

Candidate Starts for Viceroy_62:

(1, 44181), (Start: 6 @44085 has 34 MA's), (8, 44070), (11, 44043), (16, 44001), (17, 43992), (18, 43986), (21, 43962), (26, 43938), (27, 43935), (29, 43926), (33, 43905), (42, 43845),

Gene: Wayne3_65 Start: 44948, Stop: 44694, Start Num: 6

Candidate Starts for Wayne3_65:

(1, 45044), (Start: 6 @44948 has 34 MA's), (8, 44933), (11, 44906), (16, 44864), (17, 44855), (18, 44849), (21, 44825), (26, 44801), (27, 44798), (29, 44789), (33, 44768), (42, 44708),

Gene: WheelerS25_70 Start: 45994, Stop: 45740, Start Num: 6

Candidate Starts for WheelerS25_70:

(2, 46093), (3, 46012), (Start: 6 @45994 has 34 MA's), (8, 45979), (11, 45952), (16, 45910), (17, 45901), (18, 45895), (21, 45871), (26, 45847), (27, 45844), (33, 45814), (42, 45754),

Gene: Wheelie_63 Start: 44269, Stop: 44015, Start Num: 6

Candidate Starts for Wheelie_63:

(1, 44365), (Start: 6 @44269 has 34 MA's), (8, 44254), (11, 44227), (16, 44185), (17, 44176), (18, 44170), (21, 44146), (26, 44122), (27, 44119), (29, 44110), (33, 44089), (42, 44029),

Gene: Wilca_69 Start: 45105, Stop: 44830, Start Num: 4

Candidate Starts for Wilca_69:

(Start: 4 @45105 has 11 MA's), (Start: 7 @45093 has 2 MA's), (9, 45075), (15, 45042), (40, 44859), (43, 44841),

Gene: Zagie_64 Start: 44684, Stop: 44433, Start Num: 6

Candidate Starts for Zagie_64:

(2, 44786), (3, 44705), (Start: 6 @44684 has 34 MA's), (8, 44669), (16, 44600), (17, 44591), (18, 44585), (21, 44561), (26, 44537), (29, 44528), (32, 44516), (33, 44507),

Gene: ZestyBestie_61 Start: 44365, Stop: 44114, Start Num: 6

Candidate Starts for ZestyBestie_61:

(1, 44461), (Start: 6 @44365 has 34 MA's), (8, 44350), (16, 44281), (17, 44272), (18, 44266), (21, 44242), (26, 44218), (29, 44209), (32, 44197), (33, 44188),

Gene: Zhafia_66 Start: 44749, Stop: 44495, Start Num: 6

Candidate Starts for Zhafia_66:

(1, 44845), (Start: 6 @44749 has 34 MA's), (8, 44734), (11, 44707), (16, 44665), (17, 44656), (18, 44650), (21, 44626), (26, 44602), (27, 44599), (29, 44590), (33, 44569), (42, 44509),