

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 192714 Report

This analysis was run 11/02/24 on database version 579.

Pham number 192714 has 40 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Namago_90
- Track 2 : Casend_89, FrankDeliGuy_88
- Track 3 : Statler_93
- Track 4 : Lonelysoil_86, Grassboy_93
- Track 5 : Gazebo_87
- Track 6 : Altheas_91
- Track 7 : Rowlf_85, DonaldDuck_90, Llemily_90, Zagie_90, Sillytadpoles_91, EverythinBagel_88, Zhafia_94
- Track 8 : Nike_86
- Track 9 : Phabia_88
- Track 10 : BabyDotz_86
- Track 11 : Teehee_89, SallyK_90, Jehoshaphat_90
- Track 12 : Quammi_87, Viceroy_86
- Track 13 : Blab_85
- Track 14 : Phinky_94
- Track 15 : StrawberryJamm_94
- Track 16 : Kyva_92
- Track 17 : Wheelie_88, Wayne3_90
- Track 18 : Judebell_88
- Track 19 : Rudy_86
- Track 20 : Tissue_88
- Track 21 : MorillMayhem_88
- Track 22 : AluminumJesus_85
- Track 23 : Mashley_87
- Track 24 : Hyperion_87
- Track 25 : Fizzles_86
- Track 26 : Squash_91
- Track 27 : Commonplace_85, Nonagon_82

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 20 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AluminumJesus_85, Blab_85, Casend_89, DonaldDuck_90, EverythinBagel_88, FrankDeliGuy_88, Grassboy_93, Hyperion_87, Jehoshaphat_90, Judebell_88, Llemily_90, Lonelysoil_86, MorillMayhem_88, Nike_86, Phinky_94, Quammi_87, Rowlf_85, SallyK_90, Sillytadpoles_91, Squash_91, StrawberryJamm_94, Teehee_89, Tissue_88, Viceroy_86, Wayne3_90, Wheelie_88, Zagie_90, Zhafia_94,

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

- Altheas_91, BabyDotz_86, Gazebo_87, Kyva_92, Namago_90, Phabia_88, Rudy_86, Statler_93,

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

- Commonplace_85, Fizzles_86, Mashley_87, Nonagon_82,

Summary by start number:

Start 12:

- Found in 36 of 40 (90.0%) of genes in pham
- Manual Annotations of this start: 20 of 27
- Called 77.8% of time when present
- Phage (with cluster) where this start called: AluminumJesus_85 (EG), Blab_85 (EG), Casend_89 (EG), DonaldDuck_90 (EG), EverythinBagel_88 (EG), FrankDeliGuy_88 (EG), Grassboy_93 (EG), Hyperion_87 (EG), Jehoshaphat_90 (EG), Judebell_88 (EG), Llemily_90 (EG), Lonelysoil_86 (EG), MorillMayhem_88 (EG), Nike_86 (EG), Phinky_94 (EG), Quammi_87 (EG), Rowlf_85 (EG), SallyK_90 (EG), Sillytadpoles_91 (EG), Squash_91 (EG), StrawberryJamm_94 (EG), Teehee_89 (EG), Tissue_88 (EG), Viceroy_86 (EG), Wayne3_90 (EG), Wheelie_88 (EG), Zagie_90 (EG), Zhafia_94 (EG),

Start 13:

- Found in 36 of 40 (90.0%) of genes in pham
- No Manual Annotations of this start.
- Called 2.8% of time when present
- Phage (with cluster) where this start called: Kyva_92 (EG),

Start 14:

- Found in 40 of 40 (100.0%) of genes in pham
- Manual Annotations of this start: 7 of 27
- Called 27.5% of time when present
- Phage (with cluster) where this start called: Altheas_91 (EG), BabyDotz_86 (EG), Commonplace_85 (JD), Fizzles_86 (EG), Gazebo_87 (EG), Mashley_87 (EG), Namago_90 (EG), Nonagon_82 (JD), Phabia_88 (EG), Rudy_86 (EG), Statler_93 (EG),

Summary by clusters:

There are 2 clusters represented in this pham: JD, EG,

Info for manual annotations of cluster EG:

- Start number 12 was manually annotated 20 times for cluster EG.
- Start number 14 was manually annotated 7 times for cluster EG.

Gene Information:

Gene: Altheas_91 Start: 56315, Stop: 55734, Start Num: 14

Candidate Starts for Altheas_91:

(Start: 12 @56354 has 20 MA's), (13, 56336), (Start: 14 @56315 has 7 MA's), (18, 56249), (25, 56102), (28, 56018), (36, 55799), (37, 55796), (39, 55772), (40, 55745),

Gene: AluminumJesus_85 Start: 55033, Stop: 54407, Start Num: 12

Candidate Starts for AluminumJesus_85:

(4, 55375), (5, 55360), (8, 55213), (Start: 12 @55033 has 20 MA's), (13, 55015), (Start: 14 @54994 has 7 MA's), (19, 54904), (25, 54781), (28, 54697), (31, 54676), (34, 54568), (37, 54469), (39, 54445), (40, 54418),

Gene: BabyDotz_86 Start: 56723, Stop: 56142, Start Num: 14

Candidate Starts for BabyDotz_86:

(4, 57104), (5, 57089), (8, 56942), (Start: 12 @56762 has 20 MA's), (13, 56744), (Start: 14 @56723 has 7 MA's), (17, 56669), (24, 56555), (25, 56507), (28, 56423), (31, 56402), (36, 56204), (37, 56201), (39, 56177), (40, 56153),

Gene: Blab_85 Start: 55687, Stop: 55070, Start Num: 12

Candidate Starts for Blab_85:

(4, 56029), (5, 56014), (8, 55867), (Start: 12 @55687 has 20 MA's), (13, 55669), (Start: 14 @55648 has 7 MA's), (24, 55483), (25, 55435), (28, 55351), (31, 55330), (36, 55132), (39, 55105), (40, 55081),

Gene: Casend_89 Start: 56289, Stop: 55672, Start Num: 12

Candidate Starts for Casend_89:

(1, 56835), (2, 56772), (3, 56673), (6, 56595), (7, 56577), (8, 56469), (Start: 12 @56289 has 20 MA's), (13, 56271), (Start: 14 @56250 has 7 MA's), (16, 56223), (20, 56124), (24, 56088), (25, 56040), (28, 55956), (30, 55941), (36, 55737), (39, 55710), (40, 55683),

Gene: Commonplace_85 Start: 50075, Stop: 49479, Start Num: 14

Candidate Starts for Commonplace_85:

(9, 50213), (10, 50189), (11, 50144), (Start: 14 @50075 has 7 MA's), (19, 49988), (21, 49946), (23, 49931), (24, 49907), (28, 49787), (33, 49673), (35, 49640), (38, 49520), (40, 49490),

Gene: DonaldDuck_90 Start: 55641, Stop: 55024, Start Num: 12

Candidate Starts for DonaldDuck_90:

(4, 55983), (5, 55968), (8, 55821), (Start: 12 @55641 has 20 MA's), (13, 55623), (Start: 14 @55602 has 7 MA's), (16, 55575), (20, 55476), (24, 55440), (25, 55392), (28, 55308), (30, 55293), (36, 55089), (39, 55062), (40, 55035),

Gene: EverythinBagel_88 Start: 55436, Stop: 54819, Start Num: 12

Candidate Starts for EverythinBagel_88:

(4, 55778), (5, 55763), (8, 55616), (Start: 12 @55436 has 20 MA's), (13, 55418), (Start: 14 @55397 has 7 MA's), (16, 55370), (20, 55271), (24, 55235), (25, 55187), (28, 55103), (30, 55088), (36, 54884), (39, 54857), (40, 54830),

Gene: Fizzles_86 Start: 55139, Stop: 54552, Start Num: 14

Candidate Starts for Fizzles_86:

(Start: 14 @55139 has 7 MA's), (15, 55121), (25, 54926), (26, 54875), (28, 54842), (37, 54614), (39, 54590), (40, 54563),

Gene: FrankDeliGuy_88 Start: 55967, Stop: 55350, Start Num: 12

Candidate Starts for FrankDeliGuy_88:

(1, 56513), (2, 56450), (3, 56351), (6, 56273), (7, 56255), (8, 56147), (Start: 12 @55967 has 20 MA's), (13, 55949), (Start: 14 @55928 has 7 MA's), (16, 55901), (20, 55802), (24, 55766), (25, 55718), (28, 55634), (30, 55619), (36, 55415), (39, 55388), (40, 55361),

Gene: Gazebo_87 Start: 55572, Stop: 54985, Start Num: 14

Candidate Starts for Gazebo_87:

(4, 55953), (5, 55938), (8, 55791), (Start: 12 @55611 has 20 MA's), (13, 55593), (Start: 14 @55572 has 7 MA's), (25, 55362), (27, 55293), (28, 55278), (32, 55251), (37, 55047), (39, 55023), (40, 54996),

Gene: Grassboy_93 Start: 56536, Stop: 55916, Start Num: 12

Candidate Starts for Grassboy_93:

(4, 56878), (5, 56863), (8, 56716), (Start: 12 @56536 has 20 MA's), (13, 56518), (Start: 14 @56497 has 7 MA's), (19, 56407), (25, 56284), (28, 56200), (31, 56179), (36, 55981), (37, 55978), (39, 55954), (40, 55927),

Gene: Hyperion_87 Start: 55730, Stop: 55104, Start Num: 12

Candidate Starts for Hyperion_87:

(3, 56114), (6, 56036), (8, 55910), (Start: 12 @55730 has 20 MA's), (13, 55712), (Start: 14 @55691 has 7 MA's), (16, 55664), (20, 55565), (24, 55529), (25, 55481), (27, 55412), (28, 55397), (29, 55394), (37, 55166), (39, 55142), (40, 55115),

Gene: Jehoshaphat_90 Start: 56275, Stop: 55658, Start Num: 12

Candidate Starts for Jehoshaphat_90:

(4, 56617), (5, 56602), (8, 56455), (Start: 12 @56275 has 20 MA's), (13, 56257), (Start: 14 @56236 has 7 MA's), (24, 56071), (25, 56023), (28, 55939), (31, 55918), (36, 55720), (37, 55717), (39, 55693), (40, 55669),

Gene: Judebell_88 Start: 55721, Stop: 55104, Start Num: 12

Candidate Starts for Judebell_88:

(3, 56105), (7, 56009), (8, 55901), (Start: 12 @55721 has 20 MA's), (13, 55703), (Start: 14 @55682 has 7 MA's), (16, 55655), (20, 55556), (24, 55520), (25, 55472), (28, 55388), (30, 55373), (36, 55169), (39, 55142), (40, 55115),

Gene: Kyva_92 Start: 56542, Stop: 55940, Start Num: 13

Candidate Starts for Kyva_92:

(4, 56902), (5, 56887), (8, 56740), (Start: 12 @56560 has 20 MA's), (13, 56542), (Start: 14 @56521 has 7 MA's), (19, 56431), (25, 56308), (28, 56224), (31, 56203), (36, 56005), (37, 56002), (39, 55978), (40, 55951),

Gene: Llemily_90 Start: 55336, Stop: 54719, Start Num: 12

Candidate Starts for Llemily_90:

(4, 55678), (5, 55663), (8, 55516), (Start: 12 @55336 has 20 MA's), (13, 55318), (Start: 14 @55297 has 7 MA's), (16, 55270), (20, 55171), (24, 55135), (25, 55087), (28, 55003), (30, 54988), (36, 54784), (39, 54757), (40, 54730),

Gene: Lonelysoil_86 Start: 55090, Stop: 54473, Start Num: 12

Candidate Starts for Lonelysoil_86:

(4, 55432), (5, 55417), (8, 55270), (Start: 12 @55090 has 20 MA's), (13, 55072), (Start: 14 @55051 has 7 MA's), (19, 54961), (25, 54838), (28, 54754), (31, 54733), (36, 54535), (37, 54532), (39, 54508), (40, 54484),

Gene: Mashley_87 Start: 55723, Stop: 55136, Start Num: 14

Candidate Starts for Mashley_87:

(4, 56104), (5, 56089), (8, 55942), (13, 55744), (Start: 14 @55723 has 7 MA's), (24, 55561), (25, 55513), (37, 55198), (39, 55174), (40, 55147),

Gene: MorillMayhem_88 Start: 56170, Stop: 55547, Start Num: 12

Candidate Starts for MorillMayhem_88:

(Start: 12 @56170 has 20 MA's), (13, 56152), (Start: 14 @56131 has 7 MA's), (17, 56077), (24, 55963), (25, 55915), (28, 55831), (31, 55810), (36, 55612), (39, 55585), (40, 55558),

Gene: Namago_90 Start: 55783, Stop: 55202, Start Num: 14

Candidate Starts for Namago_90:

(4, 56164), (5, 56149), (8, 56002), (Start: 12 @55822 has 20 MA's), (13, 55804), (Start: 14 @55783 has 7 MA's), (19, 55693), (25, 55570), (28, 55486), (31, 55465), (36, 55267), (37, 55264), (39, 55240), (40, 55213),

Gene: Nike_86 Start: 55945, Stop: 55319, Start Num: 12

Candidate Starts for Nike_86:

(3, 56329), (6, 56251), (8, 56125), (Start: 12 @55945 has 20 MA's), (13, 55927), (Start: 14 @55906 has 7 MA's), (17, 55852), (24, 55738), (25, 55690), (36, 55381), (37, 55378), (39, 55354), (40, 55330),

Gene: Nonagon_82 Start: 49574, Stop: 48978, Start Num: 14

Candidate Starts for Nonagon_82:

(9, 49712), (10, 49688), (11, 49643), (Start: 14 @49574 has 7 MA's), (19, 49487), (21, 49445), (23, 49430), (24, 49406), (28, 49286), (33, 49172), (35, 49139), (38, 49019), (40, 48989),

Gene: Phabia_88 Start: 55664, Stop: 55074, Start Num: 14

Candidate Starts for Phabia_88:

(3, 56087), (6, 56009), (8, 55883), (Start: 12 @55703 has 20 MA's), (13, 55685), (Start: 14 @55664 has 7 MA's), (22, 55529), (25, 55451), (27, 55382), (28, 55367), (32, 55340), (37, 55136), (39, 55112), (40, 55085),

Gene: Phinky_94 Start: 57591, Stop: 56962, Start Num: 12

Candidate Starts for Phinky_94:

(Start: 12 @57591 has 20 MA's), (Start: 14 @57552 has 7 MA's), (24, 57387), (25, 57339), (27, 57270), (28, 57255), (35, 57123), (37, 57024), (39, 57000), (40, 56973),

Gene: Quammi_87 Start: 55442, Stop: 54828, Start Num: 12

Candidate Starts for Quammi_87:

(Start: 12 @55442 has 20 MA's), (13, 55424), (Start: 14 @55403 has 7 MA's), (16, 55376), (20, 55277), (24, 55241), (25, 55193), (28, 55109), (30, 55094), (36, 54890), (39, 54863), (40, 54839),

Gene: Rowlf_85 Start: 55483, Stop: 54866, Start Num: 12

Candidate Starts for Rowlf_85:

(4, 55825), (5, 55810), (8, 55663), (Start: 12 @55483 has 20 MA's), (13, 55465), (Start: 14 @55444 has 7 MA's), (16, 55417), (20, 55318), (24, 55282), (25, 55234), (28, 55150), (30, 55135), (36, 54931), (39, 54904), (40, 54877),

Gene: Rudy_86 Start: 55442, Stop: 54864, Start Num: 14

Candidate Starts for Rudy_86:

(4, 55823), (5, 55808), (8, 55661), (Start: 12 @55481 has 20 MA's), (13, 55463), (Start: 14 @55442 has 7 MA's), (19, 55352), (25, 55229), (28, 55145), (31, 55124), (36, 54926), (39, 54899), (40, 54875),

Gene: SallyK_90 Start: 56639, Stop: 56022, Start Num: 12

Candidate Starts for SallyK_90:

(4, 56981), (5, 56966), (8, 56819), (Start: 12 @56639 has 20 MA's), (13, 56621), (Start: 14 @56600 has 7 MA's), (24, 56435), (25, 56387), (28, 56303), (31, 56282), (36, 56084), (37, 56081), (39, 56057), (40, 56033),

Gene: Sillytadpoles_91 Start: 55324, Stop: 54707, Start Num: 12

Candidate Starts for Sillytadpoles_91:

(4, 55666), (5, 55651), (8, 55504), (Start: 12 @55324 has 20 MA's), (13, 55306), (Start: 14 @55285 has 7 MA's), (16, 55258), (20, 55159), (24, 55123), (25, 55075), (28, 54991), (30, 54976), (36, 54772), (39, 54745), (40, 54718),

Gene: Squash_91 Start: 56332, Stop: 55700, Start Num: 12

Candidate Starts for Squash_91:

(3, 56716), (6, 56638), (8, 56512), (Start: 12 @56332 has 20 MA's), (13, 56314), (Start: 14 @56293 has 7 MA's), (17, 56239), (24, 56125), (25, 56077), (35, 55861), (37, 55762), (39, 55738), (40, 55711),

Gene: Statler_93 Start: 56052, Stop: 55474, Start Num: 14

Candidate Starts for Statler_93:

(3, 56475), (6, 56397), (7, 56379), (8, 56271), (Start: 12 @56091 has 20 MA's), (13, 56073), (Start: 14 @56052 has 7 MA's), (24, 55887), (25, 55839), (28, 55755), (31, 55734), (36, 55536), (37, 55533), (39, 55509), (40, 55485),

Gene: StrawberryJamm_94 Start: 55626, Stop: 55009, Start Num: 12

Candidate Starts for StrawberryJamm_94:

(3, 56010), (6, 55932), (8, 55806), (Start: 12 @55626 has 20 MA's), (13, 55608), (Start: 14 @55587 has 7 MA's), (16, 55560), (20, 55461), (24, 55425), (25, 55377), (28, 55293), (30, 55278), (36, 55074), (37, 55071), (39, 55047), (40, 55020),

Gene: Teehee_89 Start: 56272, Stop: 55655, Start Num: 12

Candidate Starts for Teehee_89:

(4, 56614), (5, 56599), (8, 56452), (Start: 12 @56272 has 20 MA's), (13, 56254), (Start: 14 @56233 has 7 MA's), (24, 56068), (25, 56020), (28, 55936), (31, 55915), (36, 55717), (37, 55714), (39, 55690), (40, 55666),

Gene: Tissue_88 Start: 55980, Stop: 55354, Start Num: 12

Candidate Starts for Tissue_88:

(4, 56322), (5, 56307), (8, 56160), (Start: 12 @55980 has 20 MA's), (13, 55962), (Start: 14 @55941 has 7 MA's), (17, 55887), (24, 55773), (25, 55725), (36, 55416), (37, 55413), (39, 55389), (40, 55365),

Gene: Viceroy_86 Start: 55263, Stop: 54649, Start Num: 12

Candidate Starts for Viceroy_86:

(Start: 12 @55263 has 20 MA's), (13, 55245), (Start: 14 @55224 has 7 MA's), (16, 55197), (20, 55098), (24, 55062), (25, 55014), (28, 54930), (30, 54915), (36, 54711), (39, 54684), (40, 54660),

Gene: Wayne3_90 Start: 56272, Stop: 55643, Start Num: 12

Candidate Starts for Wayne3_90:

(3, 56656), (6, 56578), (8, 56452), (Start: 12 @56272 has 20 MA's), (13, 56254), (Start: 14 @56233 has 7 MA's), (22, 56098), (25, 56020), (27, 55951), (28, 55936), (32, 55909), (37, 55705), (39, 55681), (40, 55654),

Gene: Wheelie_88 Start: 55593, Stop: 54964, Start Num: 12

Candidate Starts for Wheelie_88:

(3, 55977), (6, 55899), (8, 55773), (Start: 12 @55593 has 20 MA's), (13, 55575), (Start: 14 @55554 has 7 MA's), (22, 55419), (25, 55341), (27, 55272), (28, 55257), (32, 55230), (37, 55026), (39, 55002), (40, 54975),

Gene: Zagie_90 Start: 56084, Stop: 55467, Start Num: 12

Candidate Starts for Zagie_90:

(4, 56426), (5, 56411), (8, 56264), (Start: 12 @56084 has 20 MA's), (13, 56066), (Start: 14 @56045 has 7 MA's), (16, 56018), (20, 55919), (24, 55883), (25, 55835), (28, 55751), (30, 55736), (36, 55532), (39, 55505), (40, 55478),

Gene: Zhafia_94 Start: 56118, Stop: 55501, Start Num: 12

Candidate Starts for Zhafia_94:

(4, 56460), (5, 56445), (8, 56298), (Start: 12 @56118 has 20 MA's), (13, 56100), (Start: 14 @56079 has 7 MA's), (16, 56052), (20, 55953), (24, 55917), (25, 55869), (28, 55785), (30, 55770), (36, 55566), (39, 55539), (40, 55512),