

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 214368 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214368 has 50 members, 25 are drafts.

Phages represented in each track:

- Track 1 : Phrank15_65, JellyBread_61, Faja_64, Lawnathon_65, CookieBear_64, MidnightRain_68, BlueShadow_66, Gorpy_64, YoungHarleezy_64, Isolde_63, Aikyam_63, AdaS_62, MaterMagnus_65, Windest_67, Raphaella_63, BenchScraper_63, BillyTP_66, MUWow_63, Sakai_63
- Track 2 : SpicyFrank_68
- Track 3 : Tiff81_60
- Track 4 : Hillester_69, RadFad_69
- Track 5 : Auxilium_61
- Track 6 : AbbyDaisy_65
- Track 7 : Anekin_66, BlackSpider_52
- Track 8 : Bhageatrice_69
- Track 9 : Seahorse_67
- Track 10 : Shukran_61
- Track 11 : Richie_68
- Track 12 : Vopal_66
- Track 13 : Guinevere_63
- Track 14 : Julie_58
- Track 15 : Schism_62
- Track 16 : QuinnAvery_63, Cole_57
- Track 17 : IsHungry_57
- Track 18 : Gusanita_61
- Track 19 : Donatella_61
- Track 20 : AllBusiness_56
- Track 21 : GoodLuckBabe_62
- Track 22 : Elesar_55
- Track 23 : Zaheer_63
- Track 24 : Halloweekend_55
- Track 25 : Ryan_62
- Track 26 : Popper_62
- Track 27 : Bauer_59
- Track 28 : Maja_49
- Track 29 : CocoCinnamon_53

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

The start number called the most often in the published annotations is 23, it was called in 17 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbyDaisy_65, AdaS_62, Aikyam_63, Anekin_66, Auxilium_61, Bauer_59, BenchScraper_63, Bhageatrice_69, BillyTP_66, BlackSpider_52, BlueShadow_66, CookieBear_64, Faja_64, Gorpy_64, Hillester_69, Isolde_63, JellyBread_61, Lawnathon_65, MUWow_63, MaterMagnus_65, MidnightRain_68, Phrank15_65, RadFad_69, Raphaella_63, Richie_68, Sakai_63, Seahorse_67, Shukran_61, SpicyFrank_68, Tiff81_60, Vopal_66, Windest_67, YoungHarleezy_64,

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:

- AllBusiness_56, CocoCinnamon_53, Cole_57, Donatella_61, Elesar_55, GoodLuckBabe_62, Guinevere_63, Gusanita_61, Halloweekend_55, IsHungry_57, Julie_58, Maja_49, Popper_62, QuinnAvery_63, Ryan_62, Schism_62, Zaheer_63,

Summary by start number:

Start 13:

- Found in 1 of 50 (2.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CocoCinnamon_53 (FO),

Start 16:

- Found in 13 of 50 (26.0%) of genes in pham
- Manual Annotations of this start: 6 of 25
- Called 84.6% of time when present
- Phage (with cluster) where this start called: Cole_57 (FF), Donatella_61 (FF), GoodLuckBabe_62 (FF), Guinevere_63 (FF), Gusanita_61 (FF), IsHungry_57 (FF), Julie_58 (FF), Popper_62 (FF), QuinnAvery_63 (FF), Ryan_62 (FF), Zaheer_63 (FF),

Start 17:

- Found in 4 of 50 (8.0%) of genes in pham
- Manual Annotations of this start: 2 of 25
- Called 75.0% of time when present
- Phage (with cluster) where this start called: AllBusiness_56 (FF), Elesar_55 (FF), Maja_49 (FO),

Start 18:

- Found in 10 of 50 (20.0%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Halloweekend_55 (FF), Schism_62 (FF),

Start 23:

- Found in 33 of 50 (66.0%) of genes in pham
- Manual Annotations of this start: 17 of 25
- Called 100.0% of time when present

- Phage (with cluster) where this start called: AbbyDaisy_65 (AY), AdaS_62 (AY), Aikyam_63 (AY), Anekin_66 (AY), Auxilium_61 (AY), Bauer_59 (FN), BenchScraper_63 (AY), Bhageatrice_69 (AY), BillyTP_66 (AY), BlackSpider_52 (FN), BlueShadow_66 (AY), CookieBear_64 (AY), Faja_64 (AY), Gorpy_64 (AY), Hillester_69 (AY), Isolde_63 (AY), JellyBread_61 (AY), Lawnathon_65 (AY), MUWow_63 (AY), MaterMagnus_65 (AY), MidnightRain_68 (AY), Phrank15_65 (AY), RadFad_69 (AY), Raphaella_63 (AY), Richie_68 (AY), Sakai_63 (AY), Seahorse_67 (AY), Shukran_61 (AY), SpicyFrank_68 (AY), Tiff81_60 (AY), Vopal_66 (AY), Windest_67 (AY), YoungHarleezy_64 (AY),

Summary by clusters:

There are 4 clusters represented in this pham: AY, FN, FF, FO,

Info for manual annotations of cluster AY:

- Start number 23 was manually annotated 16 times for cluster AY.

Info for manual annotations of cluster FF:

- Start number 16 was manually annotated 6 times for cluster FF.
- Start number 17 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster FN:

- Start number 23 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster FO:

- Start number 17 was manually annotated 1 time for cluster FO.

Gene Information:

Gene: AbbyDaisy_65 Start: 35452, Stop: 35673, Start Num: 23

Candidate Starts for AbbyDaisy_65:

(3, 35143), (5, 35200), (10, 35335), (11, 35341), (12, 35362), (15, 35392), (21, 35431), (22, 35446), (Start: 23 @35452 has 17 MA's), (25, 35485), (29, 35539), (33, 35575),

Gene: AdaS_62 Start: 32812, Stop: 33036, Start Num: 23

Candidate Starts for AdaS_62:

(Start: 23 @32812 has 17 MA's), (25, 32845), (33, 32935), (37, 32965), (39, 33004),

Gene: Aikyam_63 Start: 33131, Stop: 33355, Start Num: 23

Candidate Starts for Aikyam_63:

(Start: 23 @33131 has 17 MA's), (25, 33164), (33, 33254), (37, 33284), (39, 33323),

Gene: AllBusiness_56 Start: 38932, Stop: 39195, Start Num: 17

Candidate Starts for AllBusiness_56:

(Start: 17 @38932 has 2 MA's), (24, 39001), (27, 39031), (28, 39052), (30, 39070), (33, 39103), (34, 39115), (37, 39133), (38, 39163), (40, 39184),

Gene: Anekin_66 Start: 35586, Stop: 35810, Start Num: 23

Candidate Starts for Anekin_66:

(14, 35517), (Start: 23 @35586 has 17 MA's), (25, 35619), (32, 35706), (33, 35709), (39, 35778),

Gene: Auxilium_61 Start: 32424, Stop: 32648, Start Num: 23
Candidate Starts for Auxilium_61:
(10, 32307), (11, 32313), (15, 32364), (21, 32403), (22, 32418), (Start: 23 @32424 has 17 MA's), (25, 32457), (29, 32511), (33, 32547), (39, 32616),

Gene: Bauer_59 Start: 33224, Stop: 33448, Start Num: 23
Candidate Starts for Bauer_59:
(Start: 23 @33224 has 17 MA's), (25, 33257), (33, 33347), (37, 33377), (39, 33416),

Gene: BenchScraper_63 Start: 34323, Stop: 34547, Start Num: 23
Candidate Starts for BenchScraper_63:
(Start: 23 @34323 has 17 MA's), (25, 34356), (33, 34446), (37, 34476), (39, 34515),

Gene: Bhageatrice_69 Start: 37265, Stop: 37486, Start Num: 23
Candidate Starts for Bhageatrice_69:
(9, 37124), (10, 37148), (11, 37154), (15, 37205), (21, 37244), (22, 37259), (Start: 23 @37265 has 17 MA's), (25, 37298), (29, 37352), (31, 37373), (33, 37388), (34, 37400), (35, 37406),

Gene: BillyTP_66 Start: 36178, Stop: 36402, Start Num: 23
Candidate Starts for BillyTP_66:
(Start: 23 @36178 has 17 MA's), (25, 36211), (33, 36301), (37, 36331), (39, 36370),

Gene: BlackSpider_52 Start: 31839, Stop: 32063, Start Num: 23
Candidate Starts for BlackSpider_52:
(14, 31770), (Start: 23 @31839 has 17 MA's), (25, 31872), (32, 31959), (33, 31962), (39, 32031),

Gene: BlueShadow_66 Start: 34968, Stop: 35192, Start Num: 23
Candidate Starts for BlueShadow_66:
(Start: 23 @34968 has 17 MA's), (25, 35001), (33, 35091), (37, 35121), (39, 35160),

Gene: CocoCinnamon_53 Start: 32576, Stop: 32872, Start Num: 13
Candidate Starts for CocoCinnamon_53:
(13, 32576), (Start: 17 @32603 has 2 MA's), (28, 32723), (30, 32741), (33, 32774),

Gene: Cole_57 Start: 37556, Stop: 37825, Start Num: 16
Candidate Starts for Cole_57:
(Start: 16 @37556 has 6 MA's), (18, 37574), (24, 37631), (27, 37661), (28, 37682), (30, 37700), (32, 37730), (33, 37733), (34, 37745), (38, 37793),

Gene: CookieBear_64 Start: 34562, Stop: 34786, Start Num: 23
Candidate Starts for CookieBear_64:
(Start: 23 @34562 has 17 MA's), (25, 34595), (33, 34685), (37, 34715), (39, 34754),

Gene: Donatella_61 Start: 38470, Stop: 38739, Start Num: 16
Candidate Starts for Donatella_61:
(Start: 16 @38470 has 6 MA's), (18, 38488), (24, 38545), (27, 38575), (28, 38596), (30, 38614), (32, 38644), (33, 38647),

Gene: Elesar_55 Start: 38817, Stop: 39080, Start Num: 17
Candidate Starts for Elesar_55:
(Start: 17 @38817 has 2 MA's), (24, 38886), (27, 38916), (28, 38937), (30, 38955), (33, 38988), (34, 39000), (38, 39048),

Gene: Faja_64 Start: 35937, Stop: 36161, Start Num: 23

Candidate Starts for Faja_64:

(Start: 23 @35937 has 17 MA's), (25, 35970), (33, 36060), (37, 36090), (39, 36129),

Gene: GoodLuckBabe_62 Start: 38150, Stop: 38419, Start Num: 16

Candidate Starts for GoodLuckBabe_62:

(Start: 16 @38150 has 6 MA's), (18, 38168), (24, 38225), (27, 38255), (28, 38276), (30, 38294), (32, 38324), (33, 38327), (34, 38339),

Gene: Gorpy_64 Start: 35554, Stop: 35778, Start Num: 23

Candidate Starts for Gorpy_64:

(Start: 23 @35554 has 17 MA's), (25, 35587), (33, 35677), (37, 35707), (39, 35746),

Gene: Guinevere_63 Start: 38127, Stop: 38396, Start Num: 16

Candidate Starts for Guinevere_63:

(Start: 16 @38127 has 6 MA's), (18, 38145), (24, 38202), (27, 38232), (28, 38253), (30, 38271), (32, 38301), (33, 38304),

Gene: Gusanita_61 Start: 38513, Stop: 38782, Start Num: 16

Candidate Starts for Gusanita_61:

(Start: 16 @38513 has 6 MA's), (24, 38588), (27, 38618), (28, 38639), (30, 38657), (32, 38687), (33, 38690), (34, 38702),

Gene: Halloweekend_55 Start: 37657, Stop: 37908, Start Num: 18

Candidate Starts for Halloweekend_55:

(Start: 16 @37639 has 6 MA's), (18, 37657), (24, 37714), (27, 37744), (28, 37765), (30, 37783), (32, 37813), (33, 37816), (34, 37828), (38, 37876),

Gene: Hillester_69 Start: 36029, Stop: 36250, Start Num: 23

Candidate Starts for Hillester_69:

(9, 35888), (10, 35912), (11, 35918), (12, 35939), (15, 35969), (21, 36008), (22, 36023), (Start: 23 @36029 has 17 MA's), (25, 36062), (33, 36152),

Gene: IsHungry_57 Start: 36577, Stop: 36846, Start Num: 16

Candidate Starts for IsHungry_57:

(1, 36133), (2, 36187), (Start: 16 @36577 has 6 MA's), (24, 36652), (26, 36670), (27, 36682), (28, 36703), (30, 36721), (33, 36754), (34, 36766),

Gene: Isolde_63 Start: 34231, Stop: 34455, Start Num: 23

Candidate Starts for Isolde_63:

(Start: 23 @34231 has 17 MA's), (25, 34264), (33, 34354), (37, 34384), (39, 34423),

Gene: JellyBread_61 Start: 33583, Stop: 33807, Start Num: 23

Candidate Starts for JellyBread_61:

(Start: 23 @33583 has 17 MA's), (25, 33616), (33, 33706), (37, 33736), (39, 33775),

Gene: Julie_58 Start: 38233, Stop: 38502, Start Num: 16

Candidate Starts for Julie_58:

(Start: 16 @38233 has 6 MA's), (24, 38308), (27, 38338), (28, 38359), (30, 38377), (33, 38410), (34, 38422), (36, 38437), (39, 38479),

Gene: Lawnathon_65 Start: 34723, Stop: 34947, Start Num: 23

Candidate Starts for Lawnathon_65:

(Start: 23 @34723 has 17 MA's), (25, 34756), (33, 34846), (37, 34876), (39, 34915),

Gene: MUWow_63 Start: 34898, Stop: 35122, Start Num: 23

Candidate Starts for MUWow_63:

(Start: 23 @34898 has 17 MA's), (25, 34931), (33, 35021), (37, 35051), (39, 35090),

Gene: Maja_49 Start: 33108, Stop: 33371, Start Num: 17

Candidate Starts for Maja_49:

(Start: 17 @33108 has 2 MA's), (28, 33228), (30, 33246), (33, 33279),

Gene: MaterMagnus_65 Start: 35303, Stop: 35527, Start Num: 23

Candidate Starts for MaterMagnus_65:

(Start: 23 @35303 has 17 MA's), (25, 35336), (33, 35426), (37, 35456), (39, 35495),

Gene: MidnightRain_68 Start: 36072, Stop: 36296, Start Num: 23

Candidate Starts for MidnightRain_68:

(Start: 23 @36072 has 17 MA's), (25, 36105), (33, 36195), (37, 36225), (39, 36264),

Gene: Phrank15_65 Start: 34854, Stop: 35078, Start Num: 23

Candidate Starts for Phrank15_65:

(Start: 23 @34854 has 17 MA's), (25, 34887), (33, 34977), (37, 35007), (39, 35046),

Gene: Popper_62 Start: 37772, Stop: 38041, Start Num: 16

Candidate Starts for Popper_62:

(Start: 16 @37772 has 6 MA's), (18, 37790), (24, 37847), (28, 37898), (30, 37916), (32, 37946), (33, 37949),

Gene: QuinnAvery_63 Start: 39177, Stop: 39446, Start Num: 16

Candidate Starts for QuinnAvery_63:

(Start: 16 @39177 has 6 MA's), (18, 39195), (24, 39252), (27, 39282), (28, 39303), (30, 39321), (32, 39351), (33, 39354), (34, 39366), (38, 39414),

Gene: RadFad_69 Start: 36029, Stop: 36250, Start Num: 23

Candidate Starts for RadFad_69:

(9, 35888), (10, 35912), (11, 35918), (12, 35939), (15, 35969), (21, 36008), (22, 36023), (Start: 23 @36029 has 17 MA's), (25, 36062), (33, 36152),

Gene: Raphaella_63 Start: 34421, Stop: 34645, Start Num: 23

Candidate Starts for Raphaella_63:

(Start: 23 @34421 has 17 MA's), (25, 34454), (33, 34544), (37, 34574), (39, 34613),

Gene: Richie_68 Start: 36226, Stop: 36450, Start Num: 23

Candidate Starts for Richie_68:

(14, 36157), (Start: 23 @36226 has 17 MA's), (25, 36259), (33, 36349), (37, 36379), (39, 36418),

Gene: Ryan_62 Start: 38945, Stop: 39214, Start Num: 16

Candidate Starts for Ryan_62:

(Start: 16 @38945 has 6 MA's), (18, 38963), (24, 39020), (27, 39050), (28, 39071), (30, 39089), (32, 39119), (33, 39122),

Gene: Sakai_63 Start: 34265, Stop: 34489, Start Num: 23

Candidate Starts for Sakai_63:

(Start: 23 @34265 has 17 MA's), (25, 34298), (33, 34388), (37, 34418), (39, 34457),

Gene: Schism_62 Start: 38985, Stop: 39236, Start Num: 18

Candidate Starts for Schism_62:

(Start: 16 @38967 has 6 MA's), (18, 38985), (24, 39042), (27, 39072), (28, 39093), (30, 39111), (32, 39141), (33, 39144), (34, 39156), (36, 39171),

Gene: Seahorse_67 Start: 36536, Stop: 36757, Start Num: 23

Candidate Starts for Seahorse_67:

(7, 36332), (9, 36395), (10, 36419), (11, 36425), (15, 36476), (20, 36506), (21, 36515), (22, 36530), (Start: 23 @36536 has 17 MA's), (25, 36569), (29, 36623), (31, 36644), (33, 36659), (34, 36671), (35, 36677),

Gene: Shukran_61 Start: 33238, Stop: 33462, Start Num: 23

Candidate Starts for Shukran_61:

(19, 33211), (Start: 23 @33238 has 17 MA's), (25, 33271), (33, 33361), (39, 33430),

Gene: SpicyFrank_68 Start: 35824, Stop: 36048, Start Num: 23

Candidate Starts for SpicyFrank_68:

(6, 35620), (8, 35626), (14, 35755), (Start: 23 @35824 has 17 MA's), (25, 35857), (29, 35911), (33, 35947), (39, 36016),

Gene: Tiff81_60 Start: 32949, Stop: 33170, Start Num: 23

Candidate Starts for Tiff81_60:

(4, 32646), (9, 32808), (10, 32832), (11, 32838), (12, 32859), (21, 32928), (22, 32943), (Start: 23 @32949 has 17 MA's), (25, 32982), (33, 33072),

Gene: Vopal_66 Start: 37754, Stop: 37978, Start Num: 23

Candidate Starts for Vopal_66:

(Start: 23 @37754 has 17 MA's), (25, 37787), (33, 37877), (37, 37907), (39, 37946),

Gene: Windest_67 Start: 33781, Stop: 34005, Start Num: 23

Candidate Starts for Windest_67:

(Start: 23 @33781 has 17 MA's), (25, 33814), (33, 33904), (37, 33934), (39, 33973),

Gene: YoungHarleezy_64 Start: 34960, Stop: 35184, Start Num: 23

Candidate Starts for YoungHarleezy_64:

(Start: 23 @34960 has 17 MA's), (25, 34993), (33, 35083), (37, 35113), (39, 35152),

Gene: Zaheer_63 Start: 39067, Stop: 39336, Start Num: 16

Candidate Starts for Zaheer_63:

(Start: 16 @39067 has 6 MA's), (18, 39085), (24, 39142), (27, 39172), (28, 39193), (30, 39211), (32, 39241), (33, 39244), (34, 39256), (37, 39274), (38, 39304),