

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 296653 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296653 has 51 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Jeeves_71
- Track 2 : Kalpine_67
- Track 3 : FatCactus_64
- Track 4 : Anthony_66
- Track 5 : Chargerpower_65
- Track 6 : Blinn1_71
- Track 7 : NearlyHeadless_73, Saintus_68, Dixon_72
- Track 8 : Stephig9_72
- Track 9 : Caitlin_71
- Track 10 : Expelliarmus_70, Groundhog_72, Astro_73, Danforth_73, Smeadley_73
- Track 11 : Roary_74
- Track 12 : Phillis_70
- Track 13 : Yecey3_72
- Track 14 : IdentityCrisis_47
- Track 15 : Dalilpop_6
- Track 16 : GTE5_88
- Track 17 : Ennea_6, Lollipop1437_6
- Track 18 : Balloona_38, PotPie_40, SummitAcademy_39, CocoaPuff_40, BigChungus_39, Feastonyeet_39, Vine_42, Yucky_42
- Track 19 : Yummy_40, Buttermilkdreams_40, MScarn_41, Horseradish_40
- Track 20 : Mayweather_43, Lauer_36
- Track 21 : Elinal_43, KayGee_41, Bavidard_39
- Track 22 : Tarnish_40
- Track 23 : Pons_41
- Track 24 : CherryonLim_41
- Track 25 : Yvonnetastic_130
- Track 26 : JonJames_134
- Track 27 : Cambiare_47
- Track 28 : FlagStaff_45
- Track 29 : Avocado_47
- Track 30 : Pace1224_45
- Track 31 : Yappy_17

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

The start number called the most often in the published annotations is 8, it was called in 13 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Balloona_38, Bavidard_39, BigChungus_39, CherryonLim_41, CocoaPuff_40, Elinal_43, Feastonyeet_39, KayGee_41, Lauer_36, Mayweather_43, Pons_41, PotPie_40, SummitAcademy_39, Tarnish_40, Vine_42, Yucky_42,

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:

- Anthony_66, Astro_73, Avocado_47, Blinn1_71, Buttrmlkdreams_40, Caitlin_71, Cambiare_47, Chargerpower_65, Dalilpop_6, Danforth_73, Dixon_72, Ennea_6, Expelliarmus_70, FatCactus_64, FlagStaff_45, GTE5_88, Groundhog_72, Horseradish_40, IdentityCrisis_47, Jeeves_71, JonJames_134, Kalpine_67, Lollipop1437_6, MScarn_41, NearlyHeadless_73, Pace1224_45, Phillis_70, Roary_74, Saintus_68, Smeadley_73, Stephig9_72, Yappy_17, Yecey3_72, Yummy_40, Yvonnetastic_130,

Summary by start number:

Start 8:

- Found in 16 of 51 (31.4%) of genes in pham
- Manual Annotations of this start: 13 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Balloona_38 (CT), Bavidard_39 (CT), BigChungus_39 (CT), CherryonLim_41 (CT), CocoaPuff_40 (CT), Elinal_43 (CT), Feastonyeet_39 (CT), KayGee_41 (CT), Lauer_36 (CT), Mayweather_43 (CT), Pons_41 (CT), PotPie_40 (CT), SummitAcademy_39 (CT), Tarnish_40 (CT), Vine_42 (CT), Yucky_42 (CT),

Start 9:

- Found in 2 of 51 (3.9%) of genes in pham
- Manual Annotations of this start: 2 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JonJames_134 (DD), Yvonnetastic_130 (DD),

Start 10:

- Found in 4 of 51 (7.8%) of genes in pham
- Manual Annotations of this start: 3 of 44
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Dalilpop_6 (CR1), Ennea_6 (CR3), Lollipop1437_6 (CR3),

Start 12:

- Found in 1 of 51 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: IdentityCrisis_47 (AJ),

Start 13:

- Found in 1 of 51 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: FlagStaff_45 (G2),

Start 14:

- Found in 6 of 51 (11.8%) of genes in pham
- Manual Annotations of this start: 4 of 44
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Buttrmilkdreams_40 (CT), GTE5_88 (CR1), Horseradish_40 (CT), MScarn_41 (CT), Yummy_40 (CT),

Start 16:

- Found in 1 of 51 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yappy_17 (singleton),

Start 17:

- Found in 2 of 51 (3.9%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Cambiare_47 (G2),

Start 18:

- Found in 15 of 51 (29.4%) of genes in pham
- Manual Annotations of this start: 12 of 44
- Called 93.3% of time when present
- Phage (with cluster) where this start called: Astro_73 (A8), Avocado_47 (G2), Caitlin_71 (A8), Danforth_73 (A8), Dixon_72 (A8), Expelliarmus_70 (A8), Groundhog_72 (A8), NearlyHeadless_73 (A8), Pace1224_45 (G2), Phillis_70 (A8), Roary_74 (A8), Saintus_68 (A8), Smeadley_73 (A8), Stephig9_72 (A8),

Start 19:

- Found in 9 of 51 (17.6%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 22.2% of time when present
- Phage (with cluster) where this start called: Anthony_66 (A20), FatCactus_64 (A20),

Start 20:

- Found in 4 of 51 (7.8%) of genes in pham
- Manual Annotations of this start: 4 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Blinn1_71 (A6), Chargerpower_65 (A22), Jeeves_71 (A14), Yecey3_72 (A9),

Start 21:

- Found in 2 of 51 (3.9%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Kalpine_67 (A2),

Summary by clusters:

There are 14 clusters represented in this pham: A20, CR3, singleton, CR1, G2, A14, DD, AJ, A22, A2, A6, A9, A8, CT,

Info for manual annotations of cluster A14:

- Start number 20 was manually annotated 1 time for cluster A14.

Info for manual annotations of cluster A2:

- Start number 21 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:

- Start number 19 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A22:

- Start number 20 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A6:

- Start number 20 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster A8:

- Start number 18 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster A9:

- Start number 20 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster AJ:

- Start number 12 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster CR1:

- Start number 10 was manually annotated 1 time for cluster CR1.

Info for manual annotations of cluster CR3:

- Start number 10 was manually annotated 2 times for cluster CR3.

Info for manual annotations of cluster CT:

- Start number 8 was manually annotated 13 times for cluster CT.
- Start number 14 was manually annotated 4 times for cluster CT.

Info for manual annotations of cluster DD:

- Start number 9 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster G2:

- Start number 13 was manually annotated 1 time for cluster G2.
- Start number 17 was manually annotated 1 time for cluster G2.
- Start number 18 was manually annotated 1 time for cluster G2.

Gene Information:

Gene: Anthony_66 Start: 40829, Stop: 40665, Start Num: 19

Candidate Starts for Anthony_66:

(Start: 19 @40829 has 1 MA's), (26, 40799), (45, 40694),

Gene: Astro_73 Start: 40939, Stop: 40778, Start Num: 18

Candidate Starts for Astro_73:

(Start: 18 @40939 has 12 MA's), (35, 40855), (42, 40810), (46, 40798),

Gene: Avocado_47 Start: 37189, Stop: 37362, Start Num: 18

Candidate Starts for Avocado_47:

(Start: 17 @37186 has 1 MA's), (Start: 18 @37189 has 12 MA's), (26, 37222), (28, 37231), (35, 37273), (40, 37309), (43, 37321), (45, 37327), (46, 37330),

Gene: Balloona_38 Start: 28381, Stop: 28175, Start Num: 8

Candidate Starts for Balloona_38:

(Start: 8 @28381 has 13 MA's), (26, 28315), (41, 28225), (43, 28216), (50, 28201),

Gene: Bavilard_39 Start: 28599, Stop: 28390, Start Num: 8

Candidate Starts for Bavilard_39:

(7, 28602), (Start: 8 @28599 has 13 MA's), (Start: 19 @28563 has 1 MA's), (26, 28530), (43, 28431), (50, 28416),

Gene: BigChungus_39 Start: 28782, Stop: 28576, Start Num: 8

Candidate Starts for BigChungus_39:

(Start: 8 @28782 has 13 MA's), (26, 28716), (41, 28626), (43, 28617), (50, 28602),

Gene: Blinn1_71 Start: 39967, Stop: 39776, Start Num: 20

Candidate Starts for Blinn1_71:

(3, 40087), (Start: 20 @39967 has 4 MA's), (31, 39910), (33, 39892),

Gene: Buttrmlkdreams_40 Start: 27645, Stop: 27442, Start Num: 14

Candidate Starts for Buttrmlkdreams_40:

(1, 27837), (Start: 14 @27645 has 4 MA's), (28, 27585), (32, 27567),

Gene: Caitlin_71 Start: 40640, Stop: 40479, Start Num: 18

Candidate Starts for Caitlin_71:

(Start: 18 @40640 has 12 MA's), (35, 40556), (42, 40511), (46, 40499),

Gene: Cambiare_47 Start: 37281, Stop: 37448, Start Num: 17

Candidate Starts for Cambiare_47:

(Start: 17 @37281 has 1 MA's), (Start: 18 @37284 has 12 MA's), (26, 37317), (28, 37326), (40, 37404), (48, 37428),

Gene: Chargerpower_65 Start: 39591, Stop: 39409, Start Num: 20

Candidate Starts for Chargerpower_65:

(Start: 20 @39591 has 4 MA's), (26, 39561), (27, 39555),

Gene: CherryonLim_41 Start: 29932, Stop: 29723, Start Num: 8

Candidate Starts for CherryonLim_41:

(7, 29935), (Start: 8 @29932 has 13 MA's), (Start: 19 @29896 has 1 MA's), (24, 29875), (26, 29863), (41, 29773), (43, 29764), (50, 29749),

Gene: CocoaPuff_40 Start: 28796, Stop: 28590, Start Num: 8

Candidate Starts for CocoaPuff_40:

(Start: 8 @28796 has 13 MA's), (26, 28730), (41, 28640), (43, 28631), (50, 28616),

Gene: Dalilpop_6 Start: 4569, Stop: 4790, Start Num: 10

Candidate Starts for Dalilpop_6:

(Start: 10 @4569 has 3 MA's), (Start: 14 @4581 has 4 MA's), (23, 4617), (42, 4728), (49, 4746), (51, 4749),

Gene: Danforth_73 Start: 40987, Stop: 40826, Start Num: 18

Candidate Starts for Danforth_73:

(Start: 18 @40987 has 12 MA's), (35, 40903), (42, 40858), (46, 40846),

Gene: Dixon_72 Start: 40507, Stop: 40346, Start Num: 18

Candidate Starts for Dixon_72:

(Start: 18 @40507 has 12 MA's), (35, 40423), (42, 40378), (46, 40366),

Gene: Elinal_43 Start: 29167, Stop: 28958, Start Num: 8

Candidate Starts for Elinal_43:

(7, 29170), (Start: 8 @29167 has 13 MA's), (Start: 19 @29131 has 1 MA's), (26, 29098), (43, 28999), (50, 28984),

Gene: Ennea_6 Start: 4376, Stop: 4606, Start Num: 10

Candidate Starts for Ennea_6:

(Start: 10 @4376 has 3 MA's), (35, 4490), (36, 4496), (39, 4520), (42, 4535), (51, 4556),

Gene: Expelliarmus_70 Start: 40711, Stop: 40550, Start Num: 18

Candidate Starts for Expelliarmus_70:

(Start: 18 @40711 has 12 MA's), (35, 40627), (42, 40582), (46, 40570),

Gene: FatCactus_64 Start: 40465, Stop: 40298, Start Num: 19

Candidate Starts for FatCactus_64:

(Start: 19 @40465 has 1 MA's), (Start: 21 @40459 has 1 MA's), (34, 40390), (43, 40336), (48, 40324),

Gene: Feastonyeet_39 Start: 28782, Stop: 28576, Start Num: 8

Candidate Starts for Feastonyeet_39:

(Start: 8 @28782 has 13 MA's), (26, 28716), (41, 28626), (43, 28617), (50, 28602),

Gene: FlagStaff_45 Start: 36055, Stop: 36249, Start Num: 13

Candidate Starts for FlagStaff_45:

(Start: 13 @36055 has 1 MA's), (15, 36058), (24, 36094), (26, 36106), (28, 36115), (41, 36196),

Gene: GTE5_88 Start: 63789, Stop: 63998, Start Num: 14

Candidate Starts for GTE5_88:

(Start: 10 @63777 has 3 MA's), (Start: 14 @63789 has 4 MA's), (23, 63825), (42, 63936), (51, 63957),

Gene: Groundhog_72 Start: 40917, Stop: 40756, Start Num: 18

Candidate Starts for Groundhog_72:

(Start: 18 @40917 has 12 MA's), (35, 40833), (42, 40788), (46, 40776),

Gene: Horseradish_40 Start: 27173, Stop: 26970, Start Num: 14

Candidate Starts for Horseradish_40:

(1, 27365), (Start: 14 @27173 has 4 MA's), (28, 27113), (32, 27095),

Gene: IdentityCrisis_47 Start: 31026, Stop: 31214, Start Num: 12

Candidate Starts for IdentityCrisis_47:

(Start: 12 @31026 has 1 MA's), (24, 31071), (26, 31083), (28, 31092), (29, 31095), (39, 31164), (43, 31182), (47, 31194),

Gene: Jeeves_71 Start: 41042, Stop: 40869, Start Num: 20

Candidate Starts for Jeeves_71:

(5, 41156), (11, 41069), (Start: 20 @41042 has 4 MA's), (25, 41018), (26, 41009), (27, 41003), (30, 40991),

Gene: JonJames_134 Start: 77470, Stop: 77718, Start Num: 9

Candidate Starts for JonJames_134:

(Start: 9 @77470 has 2 MA's), (22, 77512), (38, 77617), (44, 77641), (52, 77662), (53, 77671),

Gene: Kalpine_67 Start: 42195, Stop: 42019, Start Num: 21

Candidate Starts for Kalpine_67:

(Start: 21 @42195 has 1 MA's), (34, 42123),

Gene: KayGee_41 Start: 29167, Stop: 28958, Start Num: 8

Candidate Starts for KayGee_41:

(7, 29170), (Start: 8 @29167 has 13 MA's), (Start: 19 @29131 has 1 MA's), (26, 29098), (43, 28999), (50, 28984),

Gene: Lauer_36 Start: 29997, Stop: 29788, Start Num: 8

Candidate Starts for Lauer_36:

(7, 30000), (Start: 8 @29997 has 13 MA's), (Start: 19 @29961 has 1 MA's), (24, 29940), (26, 29928), (41, 29838), (43, 29829), (50, 29814),

Gene: Lollipop1437_6 Start: 4364, Stop: 4594, Start Num: 10

Candidate Starts for Lollipop1437_6:

(Start: 10 @4364 has 3 MA's), (35, 4478), (36, 4484), (39, 4508), (42, 4523), (51, 4544),

Gene: MScarn_41 Start: 27313, Stop: 27110, Start Num: 14

Candidate Starts for MScarn_41:

(1, 27505), (Start: 14 @27313 has 4 MA's), (28, 27253), (32, 27235),

Gene: Mayweather_43 Start: 29791, Stop: 29582, Start Num: 8

Candidate Starts for Mayweather_43:

(7, 29794), (Start: 8 @29791 has 13 MA's), (Start: 19 @29755 has 1 MA's), (24, 29734), (26, 29722), (41, 29632), (43, 29623), (50, 29608),

Gene: NearlyHeadless_73 Start: 40753, Stop: 40592, Start Num: 18

Candidate Starts for NearlyHeadless_73:

(Start: 18 @40753 has 12 MA's), (35, 40669), (42, 40624), (46, 40612),

Gene: Pace1224_45 Start: 36103, Stop: 36276, Start Num: 18

Candidate Starts for Pace1224_45:

(Start: 18 @36103 has 12 MA's), (26, 36136), (40, 36223), (43, 36235), (45, 36241), (46, 36244),

Gene: Phillis_70 Start: 40207, Stop: 40049, Start Num: 18

Candidate Starts for Phillis_70:

(2, 40354), (4, 40321), (Start: 18 @40207 has 12 MA's), (40, 40087), (46, 40066), (48, 40063), (50, 40060),

Gene: Pons_41 Start: 29139, Stop: 28933, Start Num: 8

Candidate Starts for Pons_41:

(Start: 8 @29139 has 13 MA's), (26, 29073), (37, 29010), (41, 28983), (43, 28974), (50, 28959),

Gene: PotPie_40 Start: 30073, Stop: 29867, Start Num: 8

Candidate Starts for PotPie_40:

(Start: 8 @30073 has 13 MA's), (26, 30007), (41, 29917), (43, 29908), (50, 29893),

Gene: Roary_74 Start: 40972, Stop: 40811, Start Num: 18

Candidate Starts for Roary_74:

(Start: 18 @40972 has 12 MA's), (35, 40888), (37, 40876), (42, 40843), (46, 40831),

Gene: Saintus_68 Start: 37637, Stop: 37476, Start Num: 18

Candidate Starts for Saintus_68:

(Start: 18 @37637 has 12 MA's), (35, 37553), (42, 37508), (46, 37496),

Gene: Smeadley_73 Start: 40833, Stop: 40672, Start Num: 18

Candidate Starts for Smeadley_73:

(Start: 18 @40833 has 12 MA's), (35, 40749), (42, 40704), (46, 40692),

Gene: Stephig9_72 Start: 40770, Stop: 40612, Start Num: 18

Candidate Starts for Stephig9_72:

(Start: 18 @40770 has 12 MA's), (28, 40728), (35, 40686), (42, 40641), (46, 40629), (48, 40626),

Gene: SummitAcademy_39 Start: 28702, Stop: 28496, Start Num: 8

Candidate Starts for SummitAcademy_39:

(Start: 8 @28702 has 13 MA's), (26, 28636), (41, 28546), (43, 28537), (50, 28522),

Gene: Tarnish_40 Start: 29209, Stop: 29000, Start Num: 8

Candidate Starts for Tarnish_40:

(7, 29212), (Start: 8 @29209 has 13 MA's), (Start: 19 @29173 has 1 MA's), (24, 29152), (25, 29149), (26, 29140), (43, 29041), (50, 29026),

Gene: Vine_42 Start: 29438, Stop: 29232, Start Num: 8

Candidate Starts for Vine_42:

(Start: 8 @29438 has 13 MA's), (26, 29372), (41, 29282), (43, 29273), (50, 29258),

Gene: Yappy_17 Start: 5650, Stop: 5847, Start Num: 16

Candidate Starts for Yappy_17:

(6, 5620), (Start: 16 @5650 has 1 MA's), (26, 5698), (30, 5716), (35, 5749), (38, 5776), (43, 5797), (52, 5821), (54, 5833),

Gene: Yecey3_72 Start: 41315, Stop: 41127, Start Num: 20

Candidate Starts for Yecey3_72:

(Start: 20 @41315 has 4 MA's), (26, 41282),

Gene: Yucky_42 Start: 29378, Stop: 29172, Start Num: 8

Candidate Starts for Yucky_42:

(Start: 8 @29378 has 13 MA's), (26, 29312), (41, 29222), (43, 29213), (50, 29198),

Gene: Yummy_40 Start: 27287, Stop: 27084, Start Num: 14

Candidate Starts for Yummy_40:

(1, 27479), (Start: 14 @27287 has 4 MA's), (28, 27227), (32, 27209),

Gene: Yvonnetastic_130 Start: 73750, Stop: 73998, Start Num: 9

Candidate Starts for Yvonnetastic_130:

(Start: 9 @73750 has 2 MA's), (22, 73792), (38, 73897), (43, 73918), (52, 73942), (53, 73951),