

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 161889 Report

This analysis was run 04/28/24 on database version 559.

Pham number 161889 has 56 members, 15 are drafts.

Phages represented in each track:

- Track 1 : Bachome_88
- Track 2 : Kalpine_90, Trixie_87
- Track 3 : MissWhite_81
- Track 4 : Blinn1_91
- Track 5 : Community_52, Tuck_52
- Track 6 : KeAlii_46
- Track 7 : IttyBittyPiggy_48
- Track 8 : AEgle_45
- Track 9 : Adolin_51
- Track 10 : Mudpuppy_46, YesChef_49, Tutumahutu_50, Powerpuff_51
- Track 11 : AGrandiflora_51, Simpson_51, Kaylissa_50, JohnDoe_49, Joemato_51
- Track 12 : Ascela_48, Iter_48
- Track 13 : Janeemi_51
- Track 14 : Reedo_48
- Track 15 : Adumb2043_46
- Track 16 : Eraser_46, Asa16_46, Elezi_46, London_46, Niobe_46, Jstan_48
- Track 17 : VResidence_49, Nitro_48
- Track 18 : Tallboi_50
- Track 19 : Tbone_49
- Track 20 : Lizalica_48
- Track 21 : Pixelle_52
- Track 22 : Tian_49, Amyev_50
- Track 23 : DrManhattan_50
- Track 24 : Lego_48
- Track 25 : Wildwest_48
- Track 26 : Warda_49
- Track 27 : Berrie_50
- Track 28 : DrSierra_47
- Track 29 : Cyan_48
- Track 30 : Phives_53
- Track 31 : Turab_46
- Track 32 : MissSwiss_50
- Track 33 : EniyanLRS_145, Wildcat_152, MaryV_138, Azrael100_145, Cosmo_153
- Track 34 : Kumao_111
- Track 35 : Wollypog_31

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

The start number called the most often in the published annotations is 15, it was called in 20 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AGrandiflora_51, Adolin_51, Ascela_48, Berrie_50, DrManhattan_50, DrSierra_47, Iter_48, IttyBittyPiggy_48, Joemato_51, JohnDoe_49, Kaylissa_50, KeAlii_46, Lego_48, Lizalica_48, Mudpuppy_46, Nitro_48, Powerpuff_51, Reedo_48, Simpson_51, Tbone_49, Tutumahutu_50, VResidence_49, Warda_49, Wildwest_48, Wollypog_31, YesChef_49,

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:

- AEgle_45, Adumb2043_46, Amyev_50, Asa16_46, Azrael100_145, Bachome_88, Blinn1_91, Community_52, Cosmo_153, Cyan_48, Elezi_46, EniyanLRS_145, Eraser_46, Janeemi_51, Jstan_48, Kalpine_90, Kumao_111, London_46, MaryV_138, MissSwiss_50, MissWhite_81, Niobe_46, Phives_53, Pixelle_52, Tallboi_50, Tian_49, Trixie_87, Tuck_52, Turab_46, Wildcat_152,

Summary by start number:

Start 11:

- Found in 5 of 56 (8.9%) of genes in pham
- Manual Annotations of this start: 2 of 41
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Blinn1_91 (A6), MissWhite_81 (A2),

Start 13:

- Found in 1 of 56 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumao_111 (singleton),

Start 14:

- Found in 10 of 56 (17.9%) of genes in pham
- Manual Annotations of this start: 8 of 41
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Azrael100_145 (V), Bachome_88 (A11), Cosmo_153 (V), EniyanLRS_145 (V), Kalpine_90 (A2), MaryV_138 (V), Trixie_87 (A2), Wildcat_152 (V),

Start 15:

- Found in 26 of 56 (46.4%) of genes in pham
- Manual Annotations of this start: 20 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AGrandiflora_51 (AZ1), Adolin_51 (AZ1), Ascela_48 (AZ1), Berrie_50 (AZ1), DrManhattan_50 (AZ1), DrSierra_47 (AZ1), Iter_48 (AZ1), IttyBittyPiggy_48 (AZ1), Joemato_51 (AZ1), JohnDoe_49 (AZ1), Kaylissa_50 (AZ1), KeAlii_46 (AZ1), Lego_48 (AZ1), Lizalica_48 (AZ1),

Mudpuppy_46 (AZ1), Nitro_48 (AZ1), Powerpuff_51 (AZ1), Reedo_48 (AZ1), Simpson_51 (AZ1), Tbone_49 (AZ1), Tutumahutu_50 (AZ1), VResidence_49 (AZ1), Warda_49 (AZ1), Wildwest_48 (AZ1), Wollypog_31 (singleton), YesChef_49 (AZ1),

Start 16:

- Found in 3 of 56 (5.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AEgle_45 (AZ1), MissSwiss_50 (AZ1), Tallboi_50 (AZ1),

Start 17:

- Found in 16 of 56 (28.6%) of genes in pham
- Manual Annotations of this start: 10 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adumb2043_46 (AZ1), Amyev_50 (AZ1), Asa16_46 (AZ1), Community_52 (AZ1), Cyan_48 (AZ1), Elezi_46 (AZ1), Eraser_46 (AZ1), Janeemi_51 (AZ1), Jstan_48 (AZ1), London_46 (AZ1), Niobe_46 (AZ1), Phives_53 (AZ1), Pixelle_52 (AZ1), Tian_49 (AZ1), Tuck_52 (AZ1), Turab_46 (AZ1),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, A11, V, A2, A6, AZ1,

Info for manual annotations of cluster A11:

- Start number 14 was manually annotated 1 time for cluster A11.

Info for manual annotations of cluster A2:

- Start number 11 was manually annotated 1 time for cluster A2.
- Start number 14 was manually annotated 2 times for cluster A2.

Info for manual annotations of cluster A6:

- Start number 11 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster AZ1:

- Start number 15 was manually annotated 19 times for cluster AZ1.
- Start number 17 was manually annotated 10 times for cluster AZ1.

Info for manual annotations of cluster V:

- Start number 14 was manually annotated 5 times for cluster V.

Gene Information:

Gene: AEgle_45 Start: 33909, Stop: 34211, Start Num: 16

Candidate Starts for AEgle_45:

(16, 33909),

Gene: AGrandiflora_51 Start: 35186, Stop: 35530, Start Num: 15

Candidate Starts for AGrandiflora_51:

(Start: 15 @35186 has 20 MA's), (22, 35372), (25, 35480),

Gene: Adolin_51 Start: 33940, Stop: 34284, Start Num: 15
Candidate Starts for Adolin_51:
(Start: 15 @33940 has 20 MA's), (22, 34126), (25, 34234),

Gene: Adumb2043_46 Start: 33931, Stop: 34233, Start Num: 17
Candidate Starts for Adumb2043_46:
(Start: 17 @33931 has 10 MA's),

Gene: Amyev_50 Start: 37254, Stop: 37556, Start Num: 17
Candidate Starts for Amyev_50:
(Start: 17 @37254 has 10 MA's),

Gene: Asa16_46 Start: 35253, Stop: 35555, Start Num: 17
Candidate Starts for Asa16_46:
(Start: 17 @35253 has 10 MA's),

Gene: Ascela_48 Start: 34498, Stop: 34842, Start Num: 15
Candidate Starts for Ascela_48:
(Start: 15 @34498 has 20 MA's), (22, 34684),

Gene: Azrael100_145 Start: 69859, Stop: 69524, Start Num: 14
Candidate Starts for Azrael100_145:
(Start: 14 @69859 has 8 MA's), (18, 69778), (20, 69721), (21, 69685), (23, 69628), (24, 69586), (25, 69568),

Gene: Bachome_88 Start: 47603, Stop: 47259, Start Num: 14
Candidate Starts for Bachome_88:
(Start: 11 @47627 has 2 MA's), (Start: 14 @47603 has 8 MA's), (18, 47519), (21, 47420), (22, 47399), (23, 47363), (24, 47321),

Gene: Berrie_50 Start: 35600, Stop: 35944, Start Num: 15
Candidate Starts for Berrie_50:
(Start: 15 @35600 has 20 MA's), (22, 35786), (25, 35894),

Gene: Blinn1_91 Start: 47767, Stop: 47411, Start Num: 11
Candidate Starts for Blinn1_91:
(Start: 11 @47767 has 2 MA's), (Start: 14 @47743 has 8 MA's), (21, 47575), (24, 47473),

Gene: Community_52 Start: 36974, Stop: 37276, Start Num: 17
Candidate Starts for Community_52:
(12, 36938), (Start: 17 @36974 has 10 MA's), (25, 37226),

Gene: Cosmo_153 Start: 70023, Stop: 69688, Start Num: 14
Candidate Starts for Cosmo_153:
(Start: 14 @70023 has 8 MA's), (18, 69942), (20, 69885), (21, 69849), (23, 69792), (24, 69750), (25, 69732),

Gene: Cyan_48 Start: 34784, Stop: 35086, Start Num: 17
Candidate Starts for Cyan_48:
(Start: 17 @34784 has 10 MA's), (22, 34928), (25, 35036),

Gene: DrManhattan_50 Start: 33507, Stop: 33851, Start Num: 15

Candidate Starts for DrManhattan_50:
(Start: 15 @33507 has 20 MA's), (22, 33693), (25, 33801),

Gene: DrSierra_47 Start: 33655, Stop: 33999, Start Num: 15
Candidate Starts for DrSierra_47:
(Start: 15 @33655 has 20 MA's), (21, 33820), (22, 33841), (25, 33949),

Gene: Elezi_46 Start: 35250, Stop: 35552, Start Num: 17
Candidate Starts for Elezi_46:
(Start: 17 @35250 has 10 MA's),

Gene: EniyanLRS_145 Start: 70352, Stop: 70017, Start Num: 14
Candidate Starts for EniyanLRS_145:
(Start: 14 @70352 has 8 MA's), (18, 70271), (20, 70214), (21, 70178), (23, 70121), (24, 70079), (25, 70061),

Gene: Eraser_46 Start: 35260, Stop: 35562, Start Num: 17
Candidate Starts for Eraser_46:
(Start: 17 @35260 has 10 MA's),

Gene: Iter_48 Start: 34492, Stop: 34836, Start Num: 15
Candidate Starts for Iter_48:
(Start: 15 @34492 has 20 MA's), (22, 34678),

Gene: IttyBittyPiggy_48 Start: 34220, Stop: 34564, Start Num: 15
Candidate Starts for IttyBittyPiggy_48:
(7, 33926), (Start: 15 @34220 has 20 MA's), (25, 34514),

Gene: Janeemi_51 Start: 36499, Stop: 36801, Start Num: 17
Candidate Starts for Janeemi_51:
(Start: 17 @36499 has 10 MA's), (25, 36751),

Gene: Joemato_51 Start: 34811, Stop: 35155, Start Num: 15
Candidate Starts for Joemato_51:
(Start: 15 @34811 has 20 MA's), (22, 34997), (25, 35105),

Gene: JohnDoe_49 Start: 34807, Stop: 35151, Start Num: 15
Candidate Starts for JohnDoe_49:
(Start: 15 @34807 has 20 MA's), (22, 34993), (25, 35101),

Gene: Jstan_48 Start: 35255, Stop: 35557, Start Num: 17
Candidate Starts for Jstan_48:
(Start: 17 @35255 has 10 MA's),

Gene: Kalpine_90 Start: 49691, Stop: 49359, Start Num: 14
Candidate Starts for Kalpine_90:
(9, 49868), (Start: 11 @49715 has 2 MA's), (Start: 14 @49691 has 8 MA's), (21, 49523), (24, 49421),

Gene: Kaylissa_50 Start: 35202, Stop: 35546, Start Num: 15
Candidate Starts for Kaylissa_50:
(Start: 15 @35202 has 20 MA's), (22, 35388), (25, 35496),

Gene: KeAlii_46 Start: 34316, Stop: 34660, Start Num: 15

Candidate Starts for KeAlii_46:
(Start: 15 @34316 has 20 MA's), (22, 34502),

Gene: Kumao_111 Start: 66431, Stop: 66087, Start Num: 13
Candidate Starts for Kumao_111:
(Start: 13 @66431 has 1 MA's), (18, 66347), (21, 66248), (22, 66227), (23, 66191), (24, 66149),

Gene: Lego_48 Start: 34521, Stop: 34865, Start Num: 15
Candidate Starts for Lego_48:
(Start: 15 @34521 has 20 MA's), (22, 34707),

Gene: Lizalica_48 Start: 34265, Stop: 34609, Start Num: 15
Candidate Starts for Lizalica_48:
(1, 33359), (2, 33488), (3, 33608), (5, 33821), (6, 33863), (Start: 15 @34265 has 20 MA's), (22, 34451), (25, 34559),

Gene: London_46 Start: 35251, Stop: 35553, Start Num: 17
Candidate Starts for London_46:
(Start: 17 @35251 has 10 MA's),

Gene: MaryV_138 Start: 68201, Stop: 67863, Start Num: 14
Candidate Starts for MaryV_138:
(Start: 14 @68201 has 8 MA's), (18, 68120), (20, 68060), (21, 68024), (23, 67967), (24, 67925), (25, 67907),

Gene: MissSwiss_50 Start: 33782, Stop: 34084, Start Num: 16
Candidate Starts for MissSwiss_50:
(16, 33782),

Gene: MissWhite_81 Start: 45575, Stop: 45207, Start Num: 11
Candidate Starts for MissWhite_81:
(Start: 11 @45575 has 2 MA's), (Start: 14 @45551 has 8 MA's), (18, 45467), (21, 45368), (22, 45347), (23, 45311), (24, 45269),

Gene: Mudpuppy_46 Start: 34463, Stop: 34807, Start Num: 15
Candidate Starts for Mudpuppy_46:
(Start: 15 @34463 has 20 MA's), (22, 34649),

Gene: Niobe_46 Start: 35254, Stop: 35556, Start Num: 17
Candidate Starts for Niobe_46:
(Start: 17 @35254 has 10 MA's),

Gene: Nitro_48 Start: 35561, Stop: 35905, Start Num: 15
Candidate Starts for Nitro_48:
(Start: 15 @35561 has 20 MA's), (22, 35747),

Gene: Phives_53 Start: 36999, Stop: 37301, Start Num: 17
Candidate Starts for Phives_53:
(12, 36963), (Start: 17 @36999 has 10 MA's), (25, 37251),

Gene: Pixelle_52 Start: 37599, Stop: 37901, Start Num: 17
Candidate Starts for Pixelle_52:
(5, 37155), (6, 37197), (Start: 17 @37599 has 10 MA's),

Gene: Powerpuff_51 Start: 35909, Stop: 36253, Start Num: 15

Candidate Starts for Powerpuff_51:

(Start: 15 @35909 has 20 MA's), (22, 36095),

Gene: Reedo_48 Start: 33265, Stop: 33609, Start Num: 15

Candidate Starts for Reedo_48:

(4, 32752), (8, 32995), (10, 33220), (Start: 15 @33265 has 20 MA's), (22, 33451),

Gene: Simpson_51 Start: 34815, Stop: 35159, Start Num: 15

Candidate Starts for Simpson_51:

(Start: 15 @34815 has 20 MA's), (22, 35001), (25, 35109),

Gene: Tallboi_50 Start: 35843, Stop: 36145, Start Num: 16

Candidate Starts for Tallboi_50:

(16, 35843),

Gene: Tbone_49 Start: 35369, Stop: 35713, Start Num: 15

Candidate Starts for Tbone_49:

(Start: 15 @35369 has 20 MA's), (22, 35555),

Gene: Tian_49 Start: 37254, Stop: 37556, Start Num: 17

Candidate Starts for Tian_49:

(Start: 17 @37254 has 10 MA's),

Gene: Trixie_87 Start: 49773, Stop: 49441, Start Num: 14

Candidate Starts for Trixie_87:

(9, 49950), (Start: 11 @49797 has 2 MA's), (Start: 14 @49773 has 8 MA's), (21, 49605), (24, 49503),

Gene: Tuck_52 Start: 36882, Stop: 37184, Start Num: 17

Candidate Starts for Tuck_52:

(12, 36846), (Start: 17 @36882 has 10 MA's), (25, 37134),

Gene: Turab_46 Start: 33951, Stop: 34253, Start Num: 17

Candidate Starts for Turab_46:

(Start: 17 @33951 has 10 MA's),

Gene: Tutumahutu_50 Start: 34792, Stop: 35136, Start Num: 15

Candidate Starts for Tutumahutu_50:

(Start: 15 @34792 has 20 MA's), (22, 34978),

Gene: VResidence_49 Start: 34157, Stop: 34501, Start Num: 15

Candidate Starts for VResidence_49:

(Start: 15 @34157 has 20 MA's), (22, 34343),

Gene: Warda_49 Start: 34856, Stop: 35200, Start Num: 15

Candidate Starts for Warda_49:

(Start: 15 @34856 has 20 MA's),

Gene: Wildcat_152 Start: 70094, Stop: 69756, Start Num: 14

Candidate Starts for Wildcat_152:

(Start: 14 @70094 has 8 MA's), (18, 70013), (20, 69953), (21, 69917), (23, 69860), (24, 69818), (25, 69800),

Gene: Wildwest_48 Start: 34842, Stop: 35186, Start Num: 15

Candidate Starts for Wildwest_48:

(Start: 15 @34842 has 20 MA's), (22, 35028), (25, 35136),

Gene: Wollypog_31 Start: 26104, Stop: 26463, Start Num: 15

Candidate Starts for Wollypog_31:

(Start: 15 @26104 has 20 MA's), (19, 26185), (21, 26254), (23, 26335),

Gene: YesChef_49 Start: 34768, Stop: 35112, Start Num: 15

Candidate Starts for YesChef_49:

(Start: 15 @34768 has 20 MA's), (22, 34954),