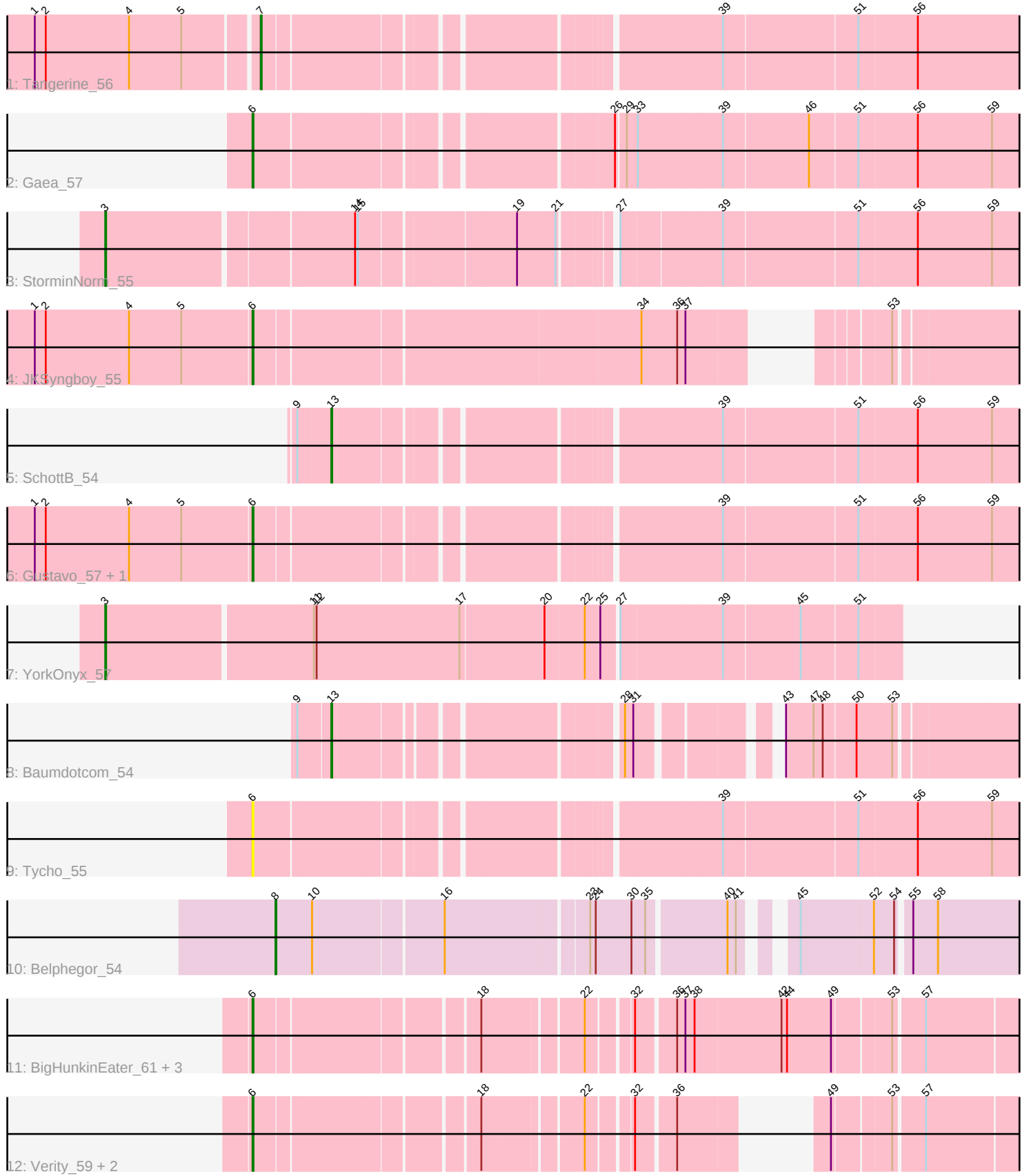


Pham 280929



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 280929 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280929 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Tangerine_56
- Track 2 : Gaea_57
- Track 3 : StorminNorm_55
- Track 4 : JKSyngboy_55
- Track 5 : SchottB_54
- Track 6 : Gustavo_57, Saronaya_57
- Track 7 : YorkOnyx_57
- Track 8 : Baumdotcom_54
- Track 9 : Tycho_55
- Track 10 : Belphegor_54
- Track 11 : BigHunkinEater_61, APunk_60, Zipp_60, ViaConlectus_59
- Track 12 : Verity_59, DoctorFroggo_59, Delrey21_59

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 10 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- APunk_60, BigHunkinEater_61, Delrey21_59, DoctorFroggo_59, Gaea_57, Gustavo_57, JKSyngboy_55, Saronaya_57, Tycho_55, Verity_59, ViaConlectus_59, Zipp_60,

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

-

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

- Baumdotcom_54, Belphegor_54, SchottB_54, StorminNorm_55, Tangerine_56, YorkOnyx_57,

Summary by start number:

Start 3:

- Found in 2 of 18 (11.1%) of genes in pham

- Manual Annotations of this start: 2 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: StorminNorm_55 (DE1), YorkOnyx_57 (DE1),

Start 6:

- Found in 12 of 18 (66.7%) of genes in pham
- Manual Annotations of this start: 10 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: APunk_60 (DE4), BigHunkinEater_61 (DE4), Delrey21_59 (DE4), DoctorFroggo_59 (DE4), Gaea_57 (DE1), Gustavo_57 (DE1), JKSyngboy_55 (DE1), Saronaya_57 (DE1), Tycho_55 (DE1), Verity_59 (DE4), ViaConlectus_59 (DE4), Zipp_60 (DE4),

Start 7:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tangerine_56 (DE1),

Start 8:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belphegor_54 (DE2),

Start 13:

- Found in 2 of 18 (11.1%) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Baumdotcom_54 (DE1), SchottB_54 (DE1),

Summary by clusters:

There are 3 clusters represented in this pham: DE1, DE2, DE4,

Info for manual annotations of cluster DE1:

- Start number 3 was manually annotated 2 times for cluster DE1.
- Start number 6 was manually annotated 4 times for cluster DE1.
- Start number 7 was manually annotated 1 time for cluster DE1.
- Start number 13 was manually annotated 2 times for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 8 was manually annotated 1 time for cluster DE2.

Info for manual annotations of cluster DE4:

- Start number 6 was manually annotated 6 times for cluster DE4.

Gene Information:

Gene: APunk_60 Start: 46791, Stop: 47549, Start Num: 6

Candidate Starts for APunk_60:

(Start: 6 @46791 has 10 MA's), (18, 47010), (22, 47106), (32, 47148), (36, 47187), (37, 47196), (38, 47205), (42, 47298), (44, 47304), (49, 47352), (53, 47409), (57, 47439),

Gene: Baumdotcom_54 Start: 45489, Stop: 46133, Start Num: 13

Candidate Starts for Baumdotcom_54:

(9, 45456), (Start: 13 @45489 has 2 MA's), (28, 45756), (31, 45765), (43, 45885), (47, 45915), (48, 45924), (50, 45957), (53, 45996),

Gene: Belphegor_54 Start: 46167, Stop: 46916, Start Num: 8

Candidate Starts for Belphegor_54:

(Start: 8 @46167 has 1 MA's), (10, 46206), (16, 46338), (23, 46485), (24, 46491), (30, 46530), (35, 46545), (40, 46626), (41, 46635), (45, 46671), (52, 46749), (54, 46770), (55, 46782), (58, 46809),

Gene: BigHunkinEater_61 Start: 46506, Stop: 47264, Start Num: 6

Candidate Starts for BigHunkinEater_61:

(Start: 6 @46506 has 10 MA's), (18, 46725), (22, 46821), (32, 46863), (36, 46902), (37, 46911), (38, 46920), (42, 47013), (44, 47019), (49, 47067), (53, 47124), (57, 47154),

Gene: Delrey21_59 Start: 48008, Stop: 48682, Start Num: 6

Candidate Starts for Delrey21_59:

(Start: 6 @48008 has 10 MA's), (18, 48227), (22, 48323), (32, 48365), (36, 48404), (49, 48485), (53, 48542), (57, 48572),

Gene: DoctorFroggo_59 Start: 48008, Stop: 48682, Start Num: 6

Candidate Starts for DoctorFroggo_59:

(Start: 6 @48008 has 10 MA's), (18, 48227), (22, 48323), (32, 48365), (36, 48404), (49, 48485), (53, 48542), (57, 48572),

Gene: Gaea_57 Start: 45626, Stop: 46414, Start Num: 6

Candidate Starts for Gaea_57:

(Start: 6 @45626 has 10 MA's), (26, 45974), (29, 45983), (33, 45995), (39, 46085), (46, 46175), (51, 46226), (56, 46289), (59, 46370),

Gene: Gustavo_57 Start: 46149, Stop: 46925, Start Num: 6

Candidate Starts for Gustavo_57:

(1, 45915), (2, 45927), (4, 46017), (5, 46074), (Start: 6 @46149 has 10 MA's), (39, 46596), (51, 46737), (56, 46800), (59, 46881),

Gene: JKSyngboy_55 Start: 46741, Stop: 47460, Start Num: 6

Candidate Starts for JKSyngboy_55:

(1, 46507), (2, 46519), (4, 46609), (5, 46666), (Start: 6 @46741 has 10 MA's), (34, 47140), (36, 47179), (37, 47188), (53, 47323),

Gene: Saronaya_57 Start: 46149, Stop: 46925, Start Num: 6

Candidate Starts for Saronaya_57:

(1, 45915), (2, 45927), (4, 46017), (5, 46074), (Start: 6 @46149 has 10 MA's), (39, 46596), (51, 46737), (56, 46800), (59, 46881),

Gene: SchottB_54 Start: 46419, Stop: 47117, Start Num: 13

Candidate Starts for SchottB_54:

(9, 46386), (Start: 13 @46419 has 2 MA's), (39, 46788), (51, 46929), (56, 46992), (59, 47073),

Gene: StorminNorm_55 Start: 45626, Stop: 46564, Start Num: 3

Candidate Starts for StorminNorm_55:

(Start: 3 @45626 has 2 MA's), (14, 45881), (15, 45884), (19, 46040), (21, 46082), (27, 46130), (39, 46235), (51, 46376), (56, 46439), (59, 46520),

Gene: Tangerine_56 Start: 45560, Stop: 46327, Start Num: 7

Candidate Starts for Tangerine_56:

(1, 45326), (2, 45338), (4, 45428), (5, 45485), (Start: 7 @45560 has 1 MA's), (39, 45998), (51, 46139), (56, 46202),

Gene: Tycho_55 Start: 45494, Stop: 46273, Start Num: 6

Candidate Starts for Tycho_55:

(Start: 6 @45494 has 10 MA's), (39, 45944), (51, 46085), (56, 46148), (59, 46229),

Gene: Verity_59 Start: 48008, Stop: 48682, Start Num: 6

Candidate Starts for Verity_59:

(Start: 6 @48008 has 10 MA's), (18, 48227), (22, 48323), (32, 48365), (36, 48404), (49, 48485), (53, 48542), (57, 48572),

Gene: ViaConlectus_59 Start: 45934, Stop: 46692, Start Num: 6

Candidate Starts for ViaConlectus_59:

(Start: 6 @45934 has 10 MA's), (18, 46153), (22, 46249), (32, 46291), (36, 46330), (37, 46339), (38, 46348), (42, 46441), (44, 46447), (49, 46495), (53, 46552), (57, 46582),

Gene: YorkOnyx_57 Start: 46072, Stop: 46905, Start Num: 3

Candidate Starts for YorkOnyx_57:

(Start: 3 @46072 has 2 MA's), (11, 46291), (12, 46294), (17, 46450), (20, 46540), (22, 46582), (25, 46597), (27, 46612), (39, 46720), (45, 46801), (51, 46861),

Gene: Zipp_60 Start: 47932, Stop: 48690, Start Num: 6

Candidate Starts for Zipp_60:

(Start: 6 @47932 has 10 MA's), (18, 48151), (22, 48247), (32, 48289), (36, 48328), (37, 48337), (38, 48346), (42, 48439), (44, 48445), (49, 48493), (53, 48550), (57, 48580),