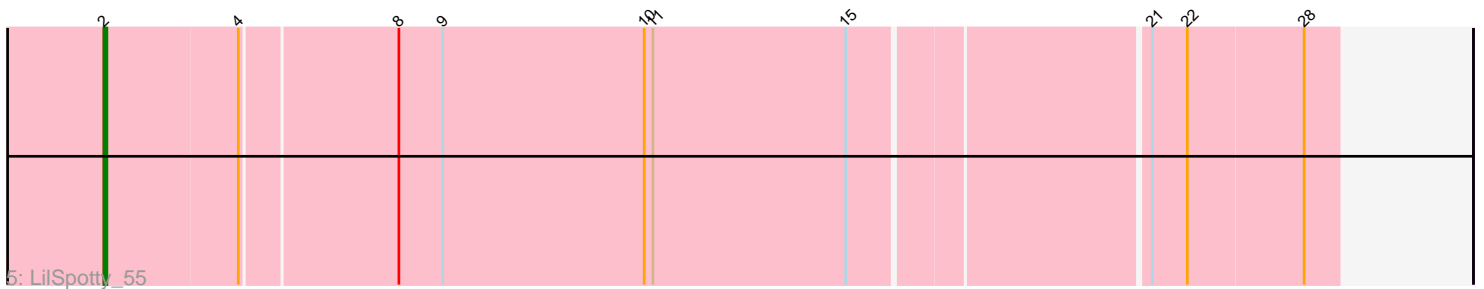
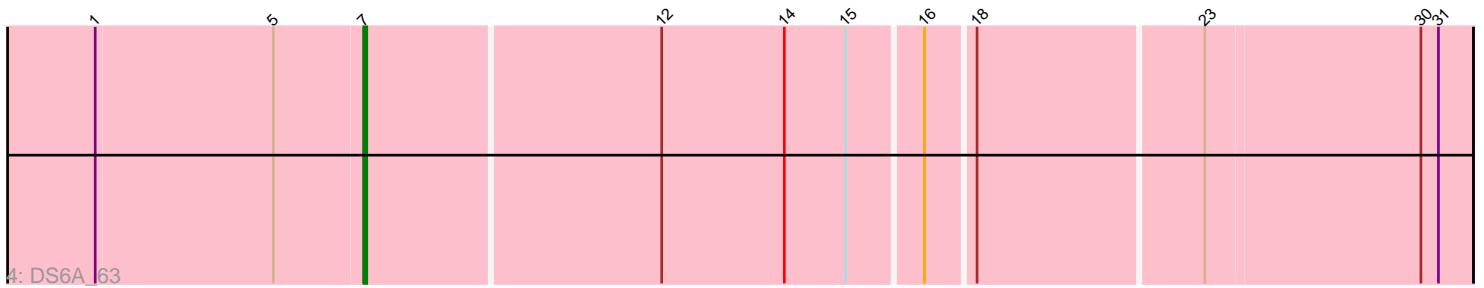
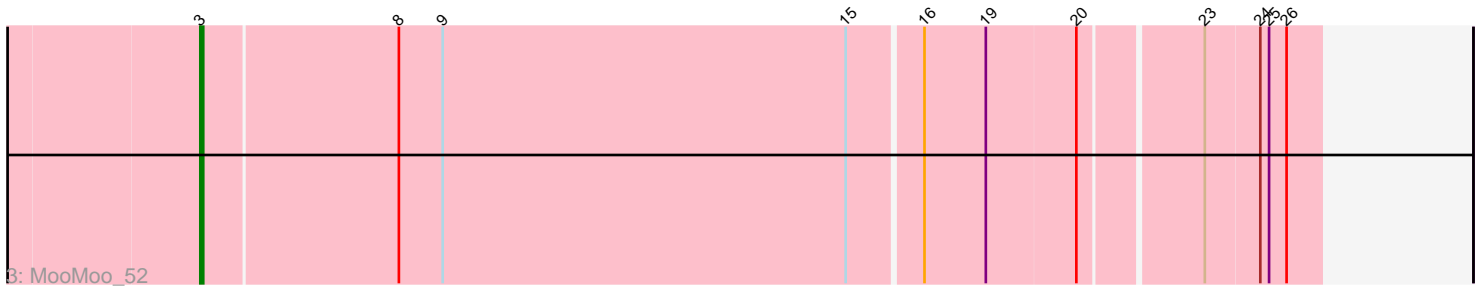
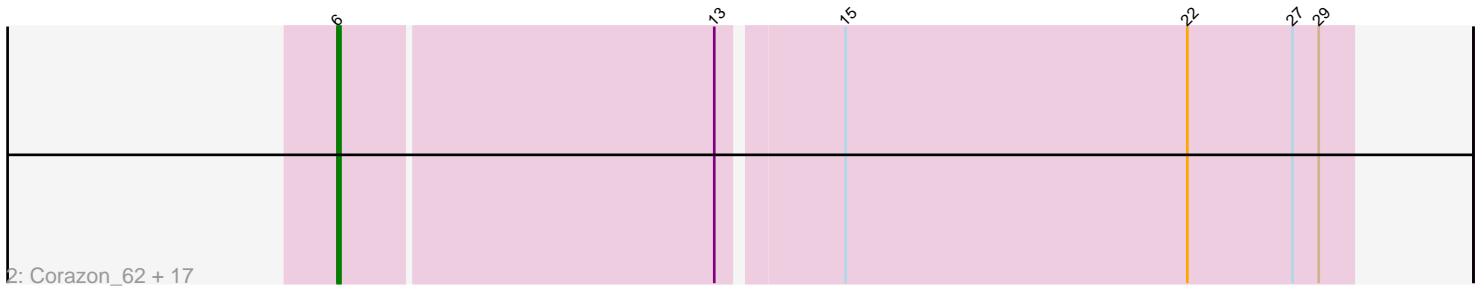
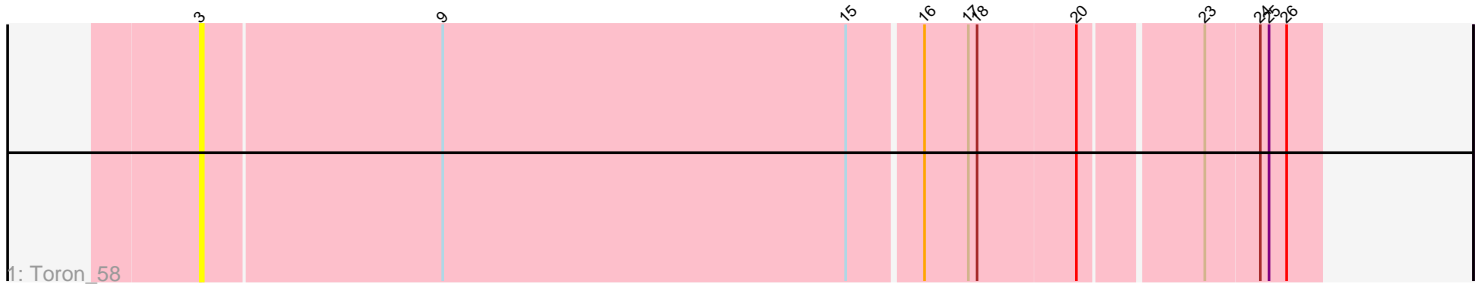


Pham 216542



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 216542 Report

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

Pham number 216542 has 22 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Toron\_58
- Track 2 : Corazon\_62, Caprice\_59, Marvin\_60, GoongGoong\_61, Pringar\_63, Blackbeetle\_64, VasuNzinga\_63, Huphlepuuff\_66, Gattaca\_62, MosMoris\_61, Raela\_64, FeliMaine\_66, Tesla\_61, Beelzebub\_68, JoieB\_65, RedRaider77\_63, Poise\_64, Clarkson\_65
- Track 3 : MooMoo\_52
- Track 4 : DS6A\_63
- Track 5 : LilSpotty\_55

### ***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 16 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub\_68, Blackbeetle\_64, Caprice\_59, Clarkson\_65, Corazon\_62, FeliMaine\_66, Gattaca\_62, GoongGoong\_61, Huphlepuuff\_66, JoieB\_65, Marvin\_60, MosMoris\_61, Poise\_64, Pringar\_63, Raela\_64, RedRaider77\_63, Tesla\_61, VasuNzinga\_63,

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

- 

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

- DS6A\_63, LilSpotty\_55, MooMoo\_52, Toron\_58,

### **Summary by start number:**

Start 2:

- Found in 1 of 22 ( 4.5% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilSpotty\_55 (singleton),

Start 3:

- Found in 2 of 22 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MooMoo\_52 (singleton), Toron\_58 (F6),

Start 6:

- Found in 18 of 22 ( 81.8% ) of genes in pham
- Manual Annotations of this start: 16 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beelzebub\_68 (S), Blackbeetle\_64 (S), Caprice\_59 (S), Clarkson\_65 (S), Corazon\_62 (S), FeliMaine\_66 (S), Gattaca\_62 (S), GoongGoong\_61 (S), Huphlepuuff\_66 (S), JoieB\_65 (S), Marvin\_60 (S), MosMoris\_61 (S), Poise\_64 (S), Pringar\_63 (S), Raela\_64 (S), RedRaider77\_63 (S), Tesla\_61 (S), VasuNzinga\_63 (S),

Start 7:

- Found in 1 of 22 ( 4.5% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DS6A\_63 (singleton),

**Summary by clusters:**

There are 3 clusters represented in this pham: S, singleton, F6,

Info for manual annotations of cluster S:

- Start number 6 was manually annotated 16 times for cluster S.

**Gene Information:**

Gene: Beelzebub\_68 Start: 36994, Stop: 37332, Start Num: 6

Candidate Starts for Beelzebub\_68:

(Start: 6 @36994 has 16 MA's), (13, 37120), (15, 37159), (22, 37276), (27, 37312), (29, 37321),

Gene: Blackbeetle\_64 Start: 36039, Stop: 36377, Start Num: 6

Candidate Starts for Blackbeetle\_64:

(Start: 6 @36039 has 16 MA's), (13, 36165), (15, 36204), (22, 36321), (27, 36357), (29, 36366),

Gene: Caprice\_59 Start: 36353, Stop: 36691, Start Num: 6

Candidate Starts for Caprice\_59:

(Start: 6 @36353 has 16 MA's), (13, 36479), (15, 36518), (22, 36635), (27, 36671), (29, 36680),

Gene: Clarkson\_65 Start: 36722, Stop: 37060, Start Num: 6

Candidate Starts for Clarkson\_65:

(Start: 6 @36722 has 16 MA's), (13, 36848), (15, 36887), (22, 37004), (27, 37040), (29, 37049),

Gene: Corazon\_62 Start: 36916, Stop: 37254, Start Num: 6

Candidate Starts for Corazon\_62:

(Start: 6 @36916 has 16 MA's), (13, 37042), (15, 37081), (22, 37198), (27, 37234), (29, 37243),

Gene: DS6A\_63 Start: 41803, Stop: 42168, Start Num: 7

Candidate Starts for DS6A\_63:

(1, 41713), (5, 41773), (Start: 7 @41803 has 1 MA's), (12, 41902), (14, 41944), (15, 41965), (16, 41989), (18, 42004), (23, 42079), (30, 42151), (31, 42157),

Gene: FeliMaine\_66 Start: 36964, Stop: 37302, Start Num: 6

Candidate Starts for FeliMaine\_66:

(Start: 6 @36964 has 16 MA's), (13, 37090), (15, 37129), (22, 37246), (27, 37282), (29, 37291),

Gene: Gattaca\_62 Start: 36143, Stop: 36481, Start Num: 6

Candidate Starts for Gattaca\_62:

(Start: 6 @36143 has 16 MA's), (13, 36269), (15, 36308), (22, 36425), (27, 36461), (29, 36470),

Gene: GoongGoong\_61 Start: 35942, Stop: 36280, Start Num: 6

Candidate Starts for GoongGoong\_61:

(Start: 6 @35942 has 16 MA's), (13, 36068), (15, 36107), (22, 36224), (27, 36260), (29, 36269),

Gene: Huphleuff\_66 Start: 36527, Stop: 36865, Start Num: 6

Candidate Starts for Huphleuff\_66:

(Start: 6 @36527 has 16 MA's), (13, 36653), (15, 36692), (22, 36809), (27, 36845), (29, 36854),

Gene: JoieB\_65 Start: 36960, Stop: 37298, Start Num: 6

Candidate Starts for JoieB\_65:

(Start: 6 @36960 has 16 MA's), (13, 37086), (15, 37125), (22, 37242), (27, 37278), (29, 37287),

Gene: LilSpotty\_55 Start: 36520, Stop: 36927, Start Num: 2

Candidate Starts for LilSpotty\_55:

(Start: 2 @36520 has 1 MA's), (4, 36565), (8, 36616), (9, 36631), (10, 36700), (11, 36703), (15, 36769), (21, 36865), (22, 36877), (28, 36916),

Gene: Marvin\_60 Start: 36210, Stop: 36548, Start Num: 6

Candidate Starts for Marvin\_60:

(Start: 6 @36210 has 16 MA's), (13, 36336), (15, 36375), (22, 36492), (27, 36528), (29, 36537),

Gene: MooMoo\_52 Start: 37750, Stop: 38121, Start Num: 3

Candidate Starts for MooMoo\_52:

(Start: 3 @37750 has 1 MA's), (8, 37816), (9, 37831), (15, 37969), (16, 37993), (19, 38014), (20, 38044), (23, 38083), (24, 38101), (25, 38104), (26, 38110),

Gene: MosMoris\_61 Start: 36143, Stop: 36481, Start Num: 6

Candidate Starts for MosMoris\_61:

(Start: 6 @36143 has 16 MA's), (13, 36269), (15, 36308), (22, 36425), (27, 36461), (29, 36470),

Gene: Poise\_64 Start: 36039, Stop: 36377, Start Num: 6

Candidate Starts for Poise\_64:

(Start: 6 @36039 has 16 MA's), (13, 36165), (15, 36204), (22, 36321), (27, 36357), (29, 36366),

Gene: Pringar\_63 Start: 36328, Stop: 36666, Start Num: 6

Candidate Starts for Pringar\_63:

(Start: 6 @36328 has 16 MA's), (13, 36454), (15, 36493), (22, 36610), (27, 36646), (29, 36655),

Gene: Raela\_64 Start: 36596, Stop: 36934, Start Num: 6

Candidate Starts for Raela\_64:

(Start: 6 @36596 has 16 MA's), (13, 36722), (15, 36761), (22, 36878), (27, 36914), (29, 36923),

Gene: RedRaider77\_63 Start: 35984, Stop: 36322, Start Num: 6

Candidate Starts for RedRaider77\_63:

(Start: 6 @35984 has 16 MA's), (13, 36110), (15, 36149), (22, 36266), (27, 36302), (29, 36311),

Gene: Tesla\_61 Start: 35833, Stop: 36171, Start Num: 6

Candidate Starts for Tesla\_61:

(Start: 6 @35833 has 16 MA's), (13, 35959), (15, 35998), (22, 36115), (27, 36151), (29, 36160),

Gene: Toron\_58 Start: 39897, Stop: 40268, Start Num: 3

Candidate Starts for Toron\_58:

(Start: 3 @39897 has 1 MA's), (9, 39978), (15, 40116), (16, 40140), (17, 40155), (18, 40158), (20, 40191), (23, 40230), (24, 40248), (25, 40251), (26, 40257),

Gene: VasuNzinga\_63 Start: 35902, Stop: 36240, Start Num: 6

Candidate Starts for VasuNzinga\_63:

(Start: 6 @35902 has 16 MA's), (13, 36028), (15, 36067), (22, 36184), (27, 36220), (29, 36229),