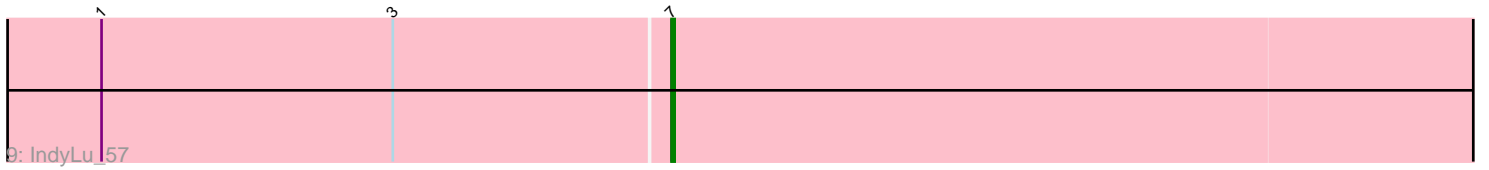
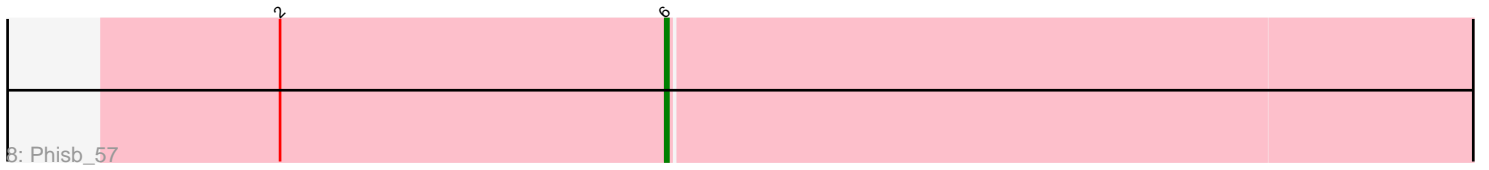
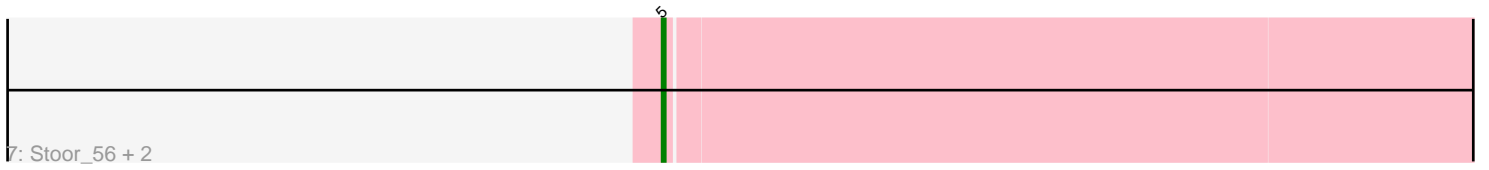
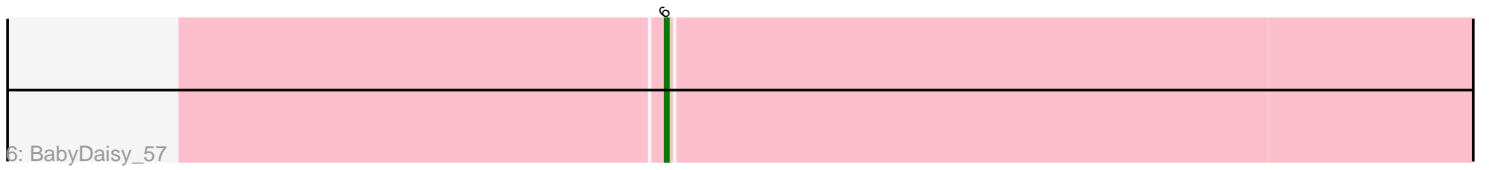
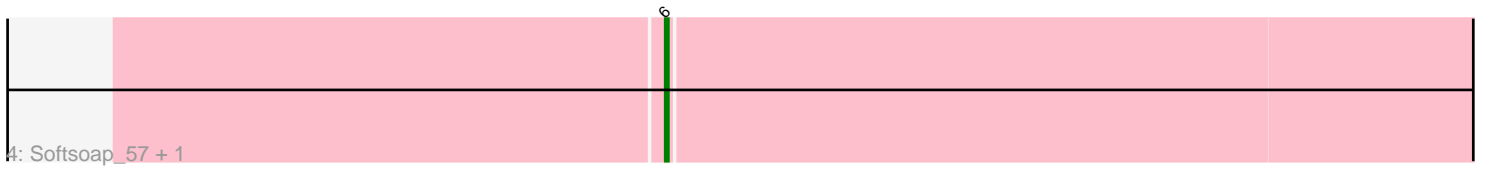


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 292731 Report

This analysis was run 04/18/26 on database version 643.

Pham number 292731 has 45 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Albedo\_57, Swervy\_57, Avocadoman\_54, CroZenni\_56, Jovita\_55, Eula\_56, QMacho\_58, Kenzers\_56, BubbaBear\_55, DickRichards\_54, SirBeanington\_56, Slay\_56, MsUbiquitous\_56, Lynlen\_57, AylexOG\_58, Abigail\_55, BelmontSKP\_56, Lilo27\_57, TukTuk\_57, Jabb\_56, Lahqtemish\_55, Johnathan\_55, AnnaLie\_56, Doobus\_54, CupcakePrincess\_56, LimaBean\_56, Finalfrontier\_57, PastaFagioli\_56, Pecas\_57, SarBear\_56
- Track 2 : Nicky22\_57
- Track 3 : Kate33\_59, Didgeridoo\_60
- Track 4 : Softsoap\_57, Burritobowl\_57
- Track 5 : Arroyo\_56, SansAfet\_57, CanFranMach\_57, Albright\_53
- Track 6 : BabyDaisy\_57
- Track 7 : Stoor\_56, SanaSana\_58, AvGardian\_57
- Track 8 : Phisb\_57
- Track 9 : IndyLu\_57

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

The start number called the most often in the published annotations is 4, it was called in 33 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abigail\_55, Albedo\_57, Albright\_53, AnnaLie\_56, Arroyo\_56, Avocadoman\_54, AylexOG\_58, BelmontSKP\_56, BubbaBear\_55, CanFranMach\_57, CroZenni\_56, CupcakePrincess\_56, DickRichards\_54, Didgeridoo\_60, Doobus\_54, Eula\_56, Finalfrontier\_57, Jabb\_56, Johnathan\_55, Jovita\_55, Kate33\_59, Kenzers\_56, Lahqtemish\_55, Lilo27\_57, LimaBean\_56, Lynlen\_57, MsUbiquitous\_56, Nicky22\_57, PastaFagioli\_56, Pecas\_57, QMacho\_58, SansAfet\_57, SarBear\_56, SirBeanington\_56, Slay\_56, Swervy\_57, TukTuk\_57,

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

- 

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

- AvGardian\_57, BabyDaisy\_57, Burritobowl\_57, IndyLu\_57, Phisb\_57, SanaSana\_58, Softsoap\_57, Stoor\_56,

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

#### Start 4:

- Found in 37 of 45 ( 82.2% ) of genes in pham
- Manual Annotations of this start: 33 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abigail\_55 (EB), Albedo\_57 (EB), Albright\_53 (EB), AnnaLie\_56 (EB), Arroyo\_56 (EB), Avocadoman\_54 (EB), AylexOG\_58 (EB), BelmontSKP\_56 (EB), BubbaBear\_55 (EB), CanFranMach\_57 (EB), CroZenni\_56 (EB), CupcakePrincess\_56 (EB), DickRichards\_54 (EB), Didgeridoo\_60 (EB), Doobus\_54 (EB), Eula\_56 (EB), Finalfrontier\_57 (EB), Jabb\_56 (EB), Johnathan\_55 (EB), Jovita\_55 (EB), Kate33\_59 (EB), Kenzers\_56 (EB), Lahqtemish\_55 (EB), Lilo27\_57 (EB), LimaBean\_56 (EB), Lynlen\_57 (EB), MsUbiquitous\_56 (EB), Nicky22\_57 (EB), PastaFagioli\_56 (EB), Pecas\_57 (EB), QMacho\_58 (EB), SansAfet\_57 (EB), SarBear\_56 (EB), SirBeanington\_56 (EB), Slay\_56 (EB), Swervy\_57 (EB), TukTuk\_57 (EB),

#### Start 5:

- Found in 3 of 45 ( 6.7% ) of genes in pham
- Manual Annotations of this start: 3 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AvGardian\_57 (EB), SanaSana\_58 (EB), Stoor\_56 (EB),

#### Start 6:

- Found in 4 of 45 ( 8.9% ) of genes in pham
- Manual Annotations of this start: 4 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BabyDaisy\_57 (EB), Burritobowl\_57 (EB), Phisb\_57 (EB), Softsoap\_57 (EB),

#### Start 7:

- Found in 1 of 45 ( 2.2% ) 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: IndyLu\_57 (EB),

### **Summary by clusters:**

There is one cluster represented in this pham: EB

#### Info for manual annotations of cluster EB:

- Start number 4 was manually annotated 33 times for cluster EB.
- Start number 5 was manually annotated 3 times for cluster EB.
- Start number 6 was manually annotated 4 times for cluster EB.
- Start number 7 was manually annotated 1 time for cluster EB.

### **Gene Information:**

Gene: Abigail\_55 Start: 35903, Stop: 36211, Start Num: 4  
Candidate Starts for Abigail\_55:  
(Start: 4 @35903 has 33 MA's),

Gene: Albedo\_57 Start: 36631, Stop: 36939, Start Num: 4  
Candidate Starts for Albedo\_57:  
(Start: 4 @36631 has 33 MA's),

Gene: Albright\_53 Start: 35334, Stop: 35642, Start Num: 4  
Candidate Starts for Albright\_53:  
(Start: 4 @35334 has 33 MA's), (8, 35463),

Gene: AnnaLie\_56 Start: 36560, Stop: 36868, Start Num: 4  
Candidate Starts for AnnaLie\_56:  
(Start: 4 @36560 has 33 MA's),

Gene: Arroyo\_56 Start: 36671, Stop: 36979, Start Num: 4  
Candidate Starts for Arroyo\_56:  
(Start: 4 @36671 has 33 MA's), (8, 36800),

Gene: AvGardian\_57 Start: 36837, Stop: 37139, Start Num: 5  
Candidate Starts for AvGardian\_57:  
(Start: 5 @36837 has 3 MA's),

Gene: Avocadoman\_54 Start: 35535, Stop: 35843, Start Num: 4  
Candidate Starts for Avocadoman\_54:  
(Start: 4 @35535 has 33 MA's),

Gene: AylexOG\_58 Start: 36566, Stop: 36874, Start Num: 4  
Candidate Starts for AylexOG\_58:  
(Start: 4 @36566 has 33 MA's),

Gene: BabyDaisy\_57 Start: 36841, Stop: 37143, Start Num: 6  
Candidate Starts for BabyDaisy\_57:  
(Start: 6 @36841 has 4 MA's),

Gene: BelmontSKP\_56 Start: 36560, Stop: 36868, Start Num: 4  
Candidate Starts for BelmontSKP\_56:  
(Start: 4 @36560 has 33 MA's),

Gene: BubbaBear\_55 Start: 36312, Stop: 36620, Start Num: 4  
Candidate Starts for BubbaBear\_55:  
(Start: 4 @36312 has 33 MA's),

Gene: Burritobowl\_57 Start: 36413, Stop: 36715, Start Num: 6  
Candidate Starts for Burritobowl\_57:  
(Start: 6 @36413 has 4 MA's),

Gene: CanFranMach\_57 Start: 36483, Stop: 36791, Start Num: 4  
Candidate Starts for CanFranMach\_57:  
(Start: 4 @36483 has 33 MA's), (8, 36612),

Gene: CroZenni\_56 Start: 36179, Stop: 36487, Start Num: 4

Candidate Starts for CroZenni\_56:

(Start: 4 @36179 has 33 MA's),

Gene: CupcakePrincess\_56 Start: 36037, Stop: 36345, Start Num: 4

Candidate Starts for CupcakePrincess\_56:

(Start: 4 @36037 has 33 MA's),

Gene: DickRichards\_54 Start: 36354, Stop: 36662, Start Num: 4

Candidate Starts for DickRichards\_54:

(Start: 4 @36354 has 33 MA's),

Gene: Didgeridoo\_60 Start: 37219, Stop: 37527, Start Num: 4

Candidate Starts for Didgeridoo\_60:

(Start: 4 @37219 has 33 MA's),

Gene: Doobus\_54 Start: 35843, Stop: 36151, Start Num: 4

Candidate Starts for Doobus\_54:

(Start: 4 @35843 has 33 MA's),

Gene: Eula\_56 Start: 36023, Stop: 36331, Start Num: 4

Candidate Starts for Eula\_56:

(Start: 4 @36023 has 33 MA's),

Gene: Finalfrontier\_57 Start: 37136, Stop: 37444, Start Num: 4

Candidate Starts for Finalfrontier\_57:

(Start: 4 @37136 has 33 MA's),

Gene: IndyLu\_57 Start: 36773, Stop: 37075, Start Num: 7

Candidate Starts for IndyLu\_57:

(1, 36593), (3, 36686), (Start: 7 @36773 has 1 MA's),

Gene: Jabb\_56 Start: 36037, Stop: 36345, Start Num: 4

Candidate Starts for Jabb\_56:

(Start: 4 @36037 has 33 MA's),

Gene: Johnathan\_55 Start: 35681, Stop: 35989, Start Num: 4

Candidate Starts for Johnathan\_55:

(Start: 4 @35681 has 33 MA's),

Gene: Jovita\_55 Start: 35892, Stop: 36200, Start Num: 4

Candidate Starts for Jovita\_55:

(Start: 4 @35892 has 33 MA's),

Gene: Kate33\_59 Start: 36512, Stop: 36820, Start Num: 4

Candidate Starts for Kate33\_59:

(Start: 4 @36512 has 33 MA's),

Gene: Kenzers\_56 Start: 36160, Stop: 36468, Start Num: 4

Candidate Starts for Kenzers\_56:

(Start: 4 @36160 has 33 MA's),

Gene: Lahqtemish\_55 Start: 36594, Stop: 36902, Start Num: 4

Candidate Starts for Lahqtemish\_55:

(Start: 4 @36594 has 33 MA's),

Gene: Lilo27\_57 Start: 36184, Stop: 36492, Start Num: 4

Candidate Starts for Lilo27\_57:

(Start: 4 @36184 has 33 MA's),

Gene: LimaBean\_56 Start: 35781, Stop: 36089, Start Num: 4

Candidate Starts for LimaBean\_56:

(Start: 4 @35781 has 33 MA's),

Gene: Lynlen\_57 Start: 36340, Stop: 36648, Start Num: 4

Candidate Starts for Lynlen\_57:

(Start: 4 @36340 has 33 MA's),

Gene: MsUbiquitous\_56 Start: 36037, Stop: 36345, Start Num: 4

Candidate Starts for MsUbiquitous\_56:

(Start: 4 @36037 has 33 MA's),

Gene: Nicky22\_57 Start: 36792, Stop: 37100, Start Num: 4

Candidate Starts for Nicky22\_57:

(Start: 4 @36792 has 33 MA's), (8, 36921), (9, 37023),

Gene: PastaFagioli\_56 Start: 36736, Stop: 37044, Start Num: 4

Candidate Starts for PastaFagioli\_56:

(Start: 4 @36736 has 33 MA's),

Gene: Pecas\_57 Start: 36418, Stop: 36726, Start Num: 4

Candidate Starts for Pecas\_57:

(Start: 4 @36418 has 33 MA's),

Gene: Phisb\_57 Start: 36464, Stop: 36766, Start Num: 6

Candidate Starts for Phisb\_57:

(2, 36341), (Start: 6 @36464 has 4 MA's),

Gene: QMacho\_58 Start: 36680, Stop: 36988, Start Num: 4

Candidate Starts for QMacho\_58:

(Start: 4 @36680 has 33 MA's),

Gene: SanaSana\_58 Start: 37640, Stop: 37942, Start Num: 5

Candidate Starts for SanaSana\_58:

(Start: 5 @37640 has 3 MA's),

Gene: SansAfet\_57 Start: 36089, Stop: 36397, Start Num: 4

Candidate Starts for SansAfet\_57:

(Start: 4 @36089 has 33 MA's), (8, 36218),

Gene: SarBear\_56 Start: 35984, Stop: 36292, Start Num: 4

Candidate Starts for SarBear\_56:

(Start: 4 @35984 has 33 MA's),

Gene: SirBeanington\_56 Start: 36501, Stop: 36809, Start Num: 4

Candidate Starts for SirBeanington\_56:

(Start: 4 @36501 has 33 MA's),

Gene: Slay\_56 Start: 36576, Stop: 36884, Start Num: 4  
Candidate Starts for Slay\_56:  
(Start: 4 @36576 has 33 MA's),

Gene: Softsoap\_57 Start: 36348, Stop: 36650, Start Num: 6  
Candidate Starts for Softsoap\_57:  
(Start: 6 @36348 has 4 MA's),

Gene: Stoor\_56 Start: 37427, Stop: 37729, Start Num: 5  
Candidate Starts for Stoor\_56:  
(Start: 5 @37427 has 3 MA's),

Gene: Swervy\_57 Start: 36256, Stop: 36564, Start Num: 4  
Candidate Starts for Swervy\_57:  
(Start: 4 @36256 has 33 MA's),

Gene: TukTuk\_57 Start: 36321, Stop: 36629, Start Num: 4  
Candidate Starts for TukTuk\_57:  
(Start: 4 @36321 has 33 MA's),