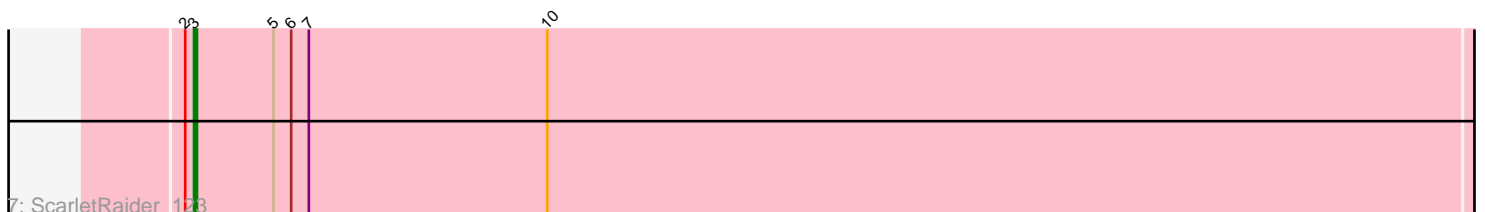
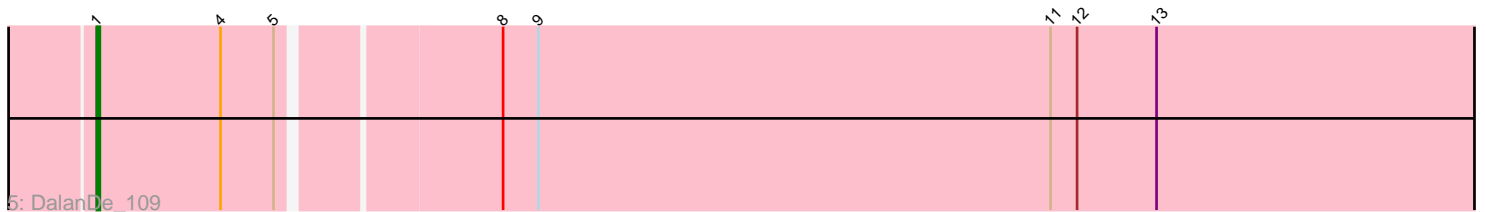
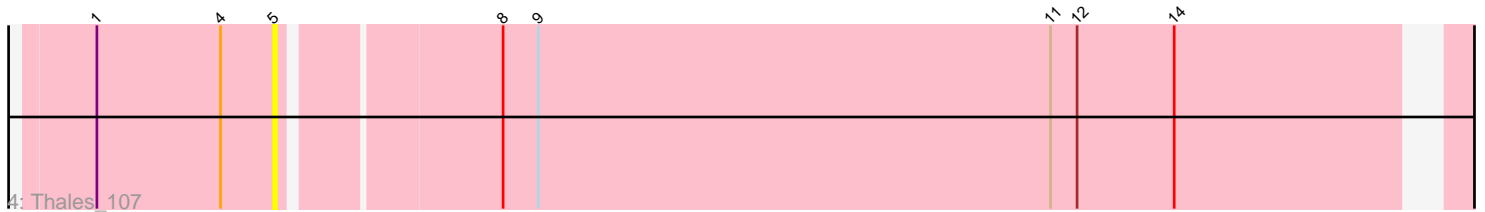
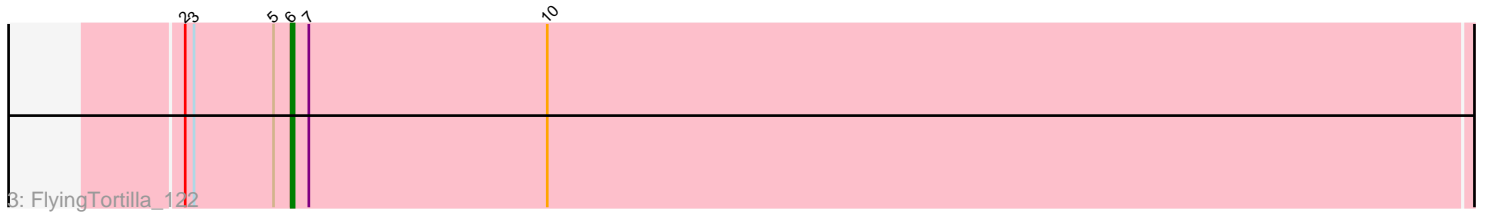
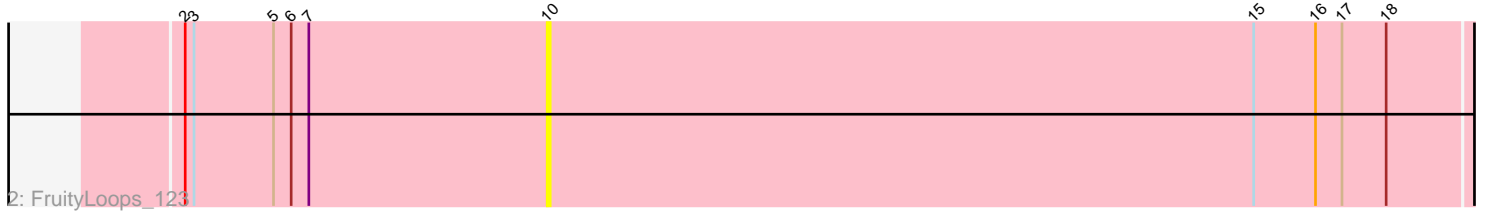
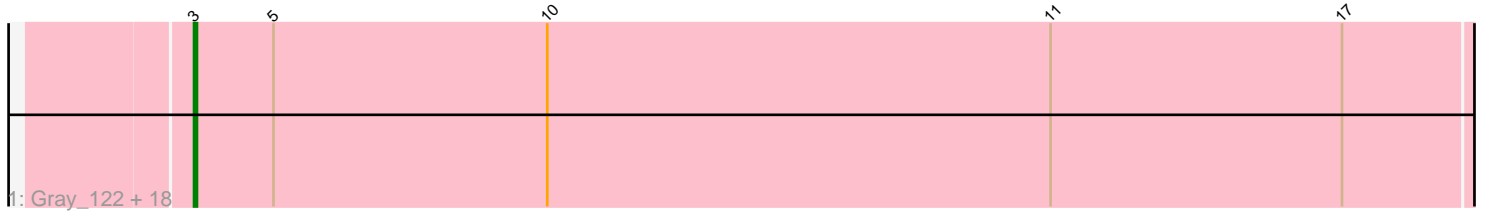


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 309162 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309162 has 25 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Gray_122, Amoonguss_123, Mikronejon_122, Chidiebere_126, Toneprano_122, Pakusa_119, Twin_120, Aloki_124, ChisanaKitsune_124, Lenoshki_123, Beted_123, Hanem_124, Farrylious_123, Argena_124, Schomber_124, MintFritos_123, Kabocha_127, EmoNemo_118, Oogie_126
- Track 2 : FruityLoops_123
- Track 3 : FlyingTortilla_122
- Track 4 : Thales_107
- Track 5 : DalanDe_109
- Track 6 : UBSmoodge_127
- Track 7 : ScarletRaider_123

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

The start number called the most often in the published annotations is 3, it was called in 10 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aloki_124, Amoonguss_123, Argena_124, Beted_123, Chidiebere_126, ChisanaKitsune_124, EmoNemo_118, Farrylious_123, Gray_122, Hanem_124, Kabocha_127, Lenoshki_123, Mikronejon_122, MintFritos_123, Oogie_126, Pakusa_119, ScarletRaider_123, Schomber_124, Toneprano_122, Twin_120, UBSmoodge_127,

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

- FlyingTortilla_122, FruityLoops_123,

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

- DalanDe_109, Thales_107,

Summary by start number:

Start 1:

- Found in 2 of 25 (8.0%) of genes in pham
- Manual Annotations of this start: 1 of 12

- Called 50.0% of time when present
- Phage (with cluster) where this start called: DalanDe_109 (DQ),

Start 3:

- Found in 23 of 25 (92.0%) of genes in pham
- Manual Annotations of this start: 10 of 12
- Called 91.3% of time when present
- Phage (with cluster) where this start called: Aloki_124 (DQ), Amoonguss_123 (DQ), Argena_124 (DQ), Beted_123 (DQ), Chidiebere_126 (DQ), ChisanaKitsune_124 (DQ), EmoNemo_118 (DQ), Farrylous_123 (DQ), Gray_122 (DQ), Hanem_124 (DQ), Kabocha_127 (DQ), Lenoshki_123 (DQ), Mikronejon_122 (DQ), MintFritos_123 (DQ), Oogie_126 (DQ), Pakusa_119 (DQ), ScarletRaider_123 (DQ), Schomber_124 (DQ), Toneprano_122 (DQ), Twin_120 (DQ), UBSmoodge_127 (DQ),

Start 5:

- Found in 25 of 25 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 4.0% of time when present
- Phage (with cluster) where this start called: Thales_107 (DQ),

Start 6:

- Found in 4 of 25 (16.0%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 25.0% of time when present
- Phage (with cluster) where this start called: FlyingTortilla_122 (DQ),

Start 10:

- Found in 23 of 25 (92.0%) of genes in pham
- No Manual Annotations of this start.
- Called 4.3% of time when present
- Phage (with cluster) where this start called: FruityLoops_123 (DQ),

Summary by clusters:

There is one cluster represented in this pham: DQ

Info for manual annotations of cluster DQ:

- Start number 1 was manually annotated 1 time for cluster DQ.
- Start number 3 was manually annotated 10 times for cluster DQ.
- Start number 6 was manually annotated 1 time for cluster DQ.

Gene Information:

Gene: Aloki_124 Start: 87107, Stop: 87628, Start Num: 3

Candidate Starts for Aloki_124:

(Start: 3 @87107 has 10 MA's), (5, 87134), (10, 87227), (11, 87398), (17, 87497),

Gene: Amoonguss_123 Start: 87740, Stop: 88261, Start Num: 3

Candidate Starts for Amoonguss_123:

(Start: 3 @87740 has 10 MA's), (5, 87767), (10, 87860), (11, 88031), (17, 88130),

Gene: Argena_124 Start: 88156, Stop: 88677, Start Num: 3
Candidate Starts for Argena_124:
(Start: 3 @88156 has 10 MA's), (5, 88183), (10, 88276), (11, 88447), (17, 88546),

Gene: Beted_123 Start: 89481, Stop: 90002, Start Num: 3
Candidate Starts for Beted_123:
(Start: 3 @89481 has 10 MA's), (5, 89508), (10, 89601), (11, 89772), (17, 89871),

Gene: Chidiebere_126 Start: 89010, Stop: 89531, Start Num: 3
Candidate Starts for Chidiebere_126:
(Start: 3 @89010 has 10 MA's), (5, 89037), (10, 89130), (11, 89301), (17, 89400),

Gene: ChisanaKitsune_124 Start: 87253, Stop: 87774, Start Num: 3
Candidate Starts for ChisanaKitsune_124:
(Start: 3 @87253 has 10 MA's), (5, 87280), (10, 87373), (11, 87544), (17, 87643),

Gene: DalanDe_109 Start: 85215, Stop: 85697, Start Num: 1
Candidate Starts for DalanDe_109:
(Start: 1 @85215 has 1 MA's), (4, 85257), (5, 85275), (8, 85344), (9, 85356), (11, 85530), (12, 85539),
(13, 85566),

Gene: EmoNemo_118 Start: 87309, Stop: 87830, Start Num: 3
Candidate Starts for EmoNemo_118:
(Start: 3 @87309 has 10 MA's), (5, 87336), (10, 87429), (11, 87600), (17, 87699),

Gene: Farrylious_123 Start: 87791, Stop: 88312, Start Num: 3
Candidate Starts for Farrylious_123:
(Start: 3 @87791 has 10 MA's), (5, 87818), (10, 87911), (11, 88082), (17, 88181),

Gene: FlyingTortilla_122 Start: 91022, Stop: 91498, Start Num: 6
Candidate Starts for FlyingTortilla_122:
(2, 90986), (Start: 3 @90989 has 10 MA's), (5, 91016), (Start: 6 @91022 has 1 MA's), (7, 91028), (10,
91109),

Gene: FruityLoops_123 Start: 90643, Stop: 91011, Start Num: 10
Candidate Starts for FruityLoops_123:
(2, 90520), (Start: 3 @90523 has 10 MA's), (5, 90550), (Start: 6 @90556 has 1 MA's), (7, 90562), (10,
90643), (15, 90883), (16, 90904), (17, 90913), (18, 90928),

Gene: Gray_122 Start: 87566, Stop: 88087, Start Num: 3
Candidate Starts for Gray_122:
(Start: 3 @87566 has 10 MA's), (5, 87593), (10, 87686), (11, 87857), (17, 87956),

Gene: Hanem_124 Start: 87107, Stop: 87628, Start Num: 3
Candidate Starts for Hanem_124:
(Start: 3 @87107 has 10 MA's), (5, 87134), (10, 87227), (11, 87398), (17, 87497),

Gene: Kabocha_127 Start: 89823, Stop: 90323, Start Num: 3
Candidate Starts for Kabocha_127:
(Start: 3 @89823 has 10 MA's), (5, 89850), (10, 89943), (11, 90114), (17, 90213),

Gene: Lenoshki_123 Start: 89481, Stop: 90002, Start Num: 3
Candidate Starts for Lenoshki_123:

(Start: 3 @89481 has 10 MA's), (5, 89508), (10, 89601), (11, 89772), (17, 89871),

Gene: Mikronejon_122 Start: 88360, Stop: 88881, Start Num: 3

Candidate Starts for Mikronejon_122:

(Start: 3 @88360 has 10 MA's), (5, 88387), (10, 88480), (11, 88651), (17, 88750),

Gene: MintFritos_123 Start: 88061, Stop: 88582, Start Num: 3

Candidate Starts for MintFritos_123:

(Start: 3 @88061 has 10 MA's), (5, 88088), (10, 88181), (11, 88352), (17, 88451),

Gene: Oogie_126 Start: 89531, Stop: 90052, Start Num: 3

Candidate Starts for Oogie_126:

(Start: 3 @89531 has 10 MA's), (5, 89558), (10, 89651), (11, 89822), (17, 89921),

Gene: Pakusa_119 Start: 87035, Stop: 87556, Start Num: 3

Candidate Starts for Pakusa_119:

(Start: 3 @87035 has 10 MA's), (5, 87062), (10, 87155), (11, 87326), (17, 87425),

Gene: ScarletRaider_123 Start: 90206, Stop: 90691, Start Num: 3

Candidate Starts for ScarletRaider_123:

(2, 90203), (Start: 3 @90206 has 10 MA's), (5, 90233), (Start: 6 @90239 has 1 MA's), (7, 90245), (10, 90326),

Gene: Schomber_124 Start: 88211, Stop: 88732, Start Num: 3

Candidate Starts for Schomber_124:

(Start: 3 @88211 has 10 MA's), (5, 88238), (10, 88331), (11, 88502), (17, 88601),

Gene: Thales_107 Start: 83901, Stop: 84308, Start Num: 5

Candidate Starts for Thales_107:

(Start: 1 @83841 has 1 MA's), (4, 83883), (5, 83901), (8, 83970), (9, 83982), (11, 84156), (12, 84165), (14, 84198),

Gene: Toneprano_122 Start: 87754, Stop: 88275, Start Num: 3

Candidate Starts for Toneprano_122:

(Start: 3 @87754 has 10 MA's), (5, 87781), (10, 87874), (11, 88045), (17, 88144),

Gene: Twin_120 Start: 87784, Stop: 88305, Start Num: 3

Candidate Starts for Twin_120:

(Start: 3 @87784 has 10 MA's), (5, 87811), (10, 87904), (11, 88075), (17, 88174),

Gene: UBSmoodge_127 Start: 90804, Stop: 91292, Start Num: 3

Candidate Starts for UBSmoodge_127:

(2, 90801), (Start: 3 @90804 has 10 MA's), (5, 90831), (Start: 6 @90837 has 1 MA's), (7, 90843), (10, 90924), (15, 91164), (16, 91185), (17, 91194), (18, 91209),