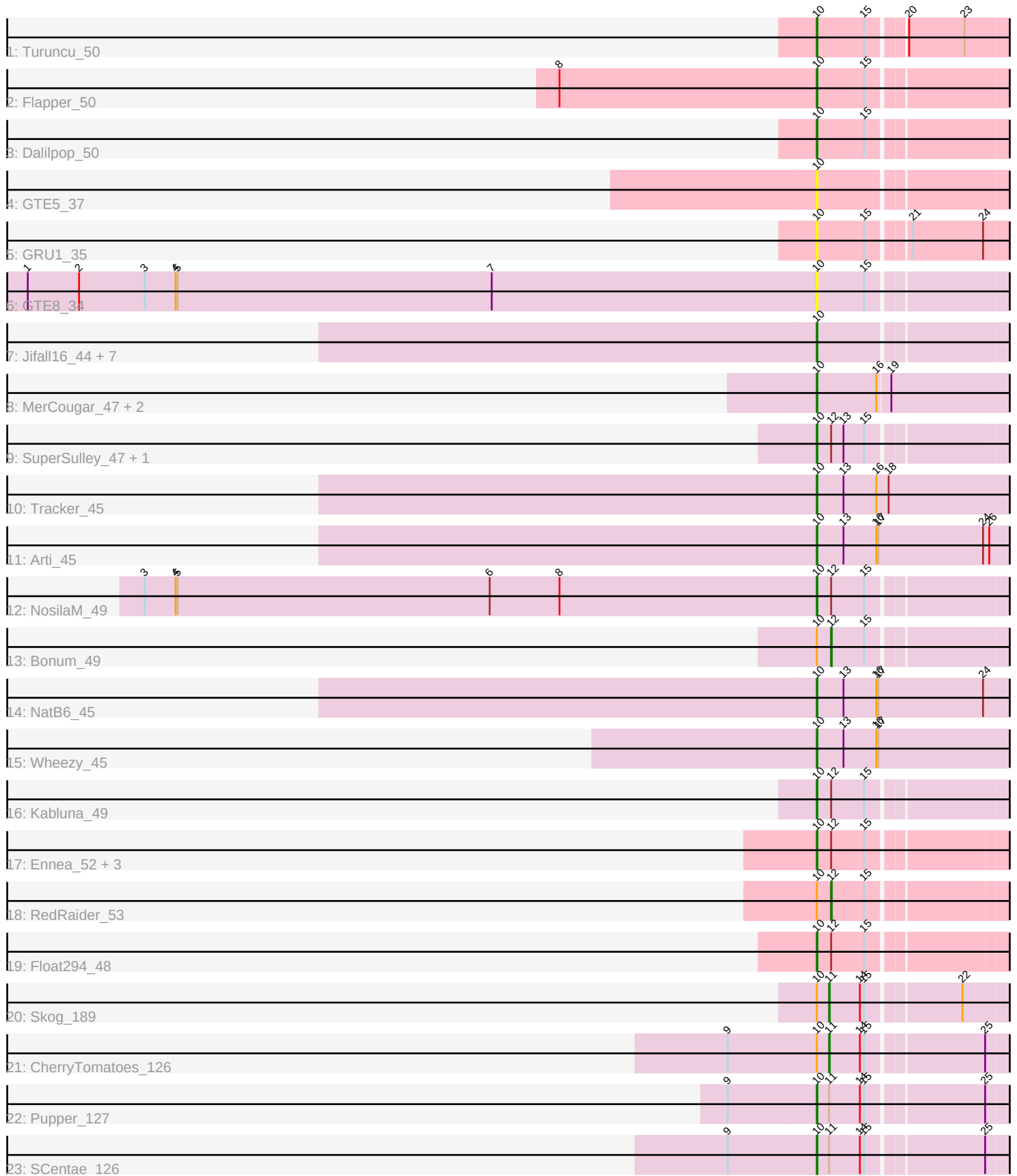




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 280646 Report

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

Pham number 280646 has 36 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Turuncu_50
- Track 2 : Flapper_50
- Track 3 : Dalilpop_50
- Track 4 : GTE5_37
- Track 5 : GRU1_35
- Track 6 : GTE8_34
- Track 7 : Jifall16_44, Foxboro_46, Phomeo_44, Emianna_45, Kurt_45, GrootJr_47, KidneyBean_45, NovumRegina_45
- Track 8 : MerCougar_47, StarStruck_47, Outis_47
- Track 9 : SuperSulley_47, Buggaboo_47
- Track 10 : Tracker_45
- Track 11 : Arti_45
- Track 12 : NosilaM_49
- Track 13 : Bonum_49
- Track 14 : NatB6_45
- Track 15 : Wheezy_45
- Track 16 : Kabluna_49
- Track 17 : Ennea_52, Patio_49, Skysand_48, Lollipop1437_51
- Track 18 : RedRaider_53
- Track 19 : Float294_48
- Track 20 : Skog_189
- Track 21 : CherryTomatoes_126
- Track 22 : Pupper_127
- Track 23 : SCentae_126

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

The start number called the most often in the published annotations is 10, it was called in 29 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arti_45, Buggaboo_47, Dalilpop_50, Emianna_45, Ennea_52, Flapper_50, Float294_48, Foxboro_46, GRU1_35, GTE5_37, GTE8_34, GrootJr_47, Jifall16_44, Kabluna_49, KidneyBean_45, Kurt_45, Lollipop1437_51, MerCougar_47, NatB6_45,

NosilaM_49, NovumRegina_45, Outis_47, Patio_49, Phomeo_44, Pupper_127, SCentae_126, Skysand_48, StarStruck_47, SuperSulley_47, Tracker_45, Turuncu_50, Wheezy_45,

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

- Bonum_49, CherryTomatoes_126, RedRaider_53, Skog_189,

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

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Summary by start number:

Start 10:

- Found in 36 of 36 (100.0%) of genes in pham
- Manual Annotations of this start: 29 of 33
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Arti_45 (CR2), Buggaboo_47 (CR2), Dalilpop_50 (CR1), Emianna_45 (CR2), Ennea_52 (CR3), Flapper_50 (CR1), Float294_48 (CR3), Foxboro_46 (CR2), GRU1_35 (CR1), GTE5_37 (CR1), GTE8_34 (CR2), GrootJr_47 (CR2), Jifall16_44 (CR2), Kabluna_49 (CR2), KidneyBean_45 (CR2), Kurt_45 (CR2), Lollipop1437_51 (CR3), MerCougar_47 (CR2), NatB6_45 (CR2), NosilaM_49 (CR2), NovumRegina_45 (CR2), Outis_47 (CR2), Patio_49 (CR3), Phomeo_44 (CR2), Pupper_127 (DO), SCentae_126 (DO), Skysand_48 (CR3), StarStruck_47 (CR2), SuperSulley_47 (CR2), Tracker_45 (CR2), Turuncu_50 (CR1), Wheezy_45 (CR2),

Start 11:

- Found in 4 of 36 (11.1%) of genes in pham
- Manual Annotations of this start: 2 of 33
- Called 50.0% of time when present
- Phage (with cluster) where this start called: CherryTomatoes_126 (DO), Skog_189 (DO),

Start 12:

- Found in 11 of 36 (30.6%) of genes in pham
- Manual Annotations of this start: 2 of 33
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Bonum_49 (CR2), RedRaider_53 (CR3),

Summary by clusters:

There are 4 clusters represented in this pham: CR2, CR3, CR1, DO,

Info for manual annotations of cluster CR1:

- Start number 10 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 10 was manually annotated 19 times for cluster CR2.
- Start number 12 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 10 was manually annotated 5 times for cluster CR3.
- Start number 12 was manually annotated 1 time for cluster CR3.

Info for manual annotations of cluster DO:

- Start number 10 was manually annotated 2 times for cluster DO.
- Start number 11 was manually annotated 2 times for cluster DO.

Gene Information:

Gene: Arti_45 Start: 35995, Stop: 36318, Start Num: 10

Candidate Starts for Arti_45:

(Start: 10 @35995 has 29 MA's), (13, 36034), (16, 36082), (17, 36085), (24, 36238), (26, 36247),

Gene: Bonum_49 Start: 36691, Stop: 36969, Start Num: 12

Candidate Starts for Bonum_49:

(Start: 10 @36670 has 29 MA's), (Start: 12 @36691 has 2 MA's), (15, 36739),

Gene: Buggaboo_47 Start: 37149, Stop: 37448, Start Num: 10

Candidate Starts for Buggaboo_47:

(Start: 10 @37149 has 29 MA's), (Start: 12 @37170 has 2 MA's), (13, 37188), (15, 37218),

Gene: CherryTomatoes_126 Start: 83238, Stop: 83522, Start Num: 11

Candidate Starts for CherryTomatoes_126:

(9, 83091), (Start: 10 @83220 has 29 MA's), (Start: 11 @83238 has 2 MA's), (14, 83283), (15, 83289), (25, 83448),

Gene: Dalilpop_50 Start: 38287, Stop: 38589, Start Num: 10

Candidate Starts for Dalilpop_50:

(Start: 10 @38287 has 29 MA's), (15, 38356),

Gene: Emianna_45 Start: 37008, Stop: 37310, Start Num: 10

Candidate Starts for Emianna_45:

(Start: 10 @37008 has 29 MA's),

Gene: Ennea_52 Start: 38011, Stop: 38310, Start Num: 10

Candidate Starts for Ennea_52:

(Start: 10 @38011 has 29 MA's), (Start: 12 @38032 has 2 MA's), (15, 38080),

Gene: Flapper_50 Start: 37719, Stop: 38021, Start Num: 10

Candidate Starts for Flapper_50:

(8, 37344), (Start: 10 @37719 has 29 MA's), (15, 37788),

Gene: Float294_48 Start: 37453, Stop: 37752, Start Num: 10

Candidate Starts for Float294_48:

(Start: 10 @37453 has 29 MA's), (Start: 12 @37474 has 2 MA's), (15, 37522),

Gene: Foxboro_46 Start: 37514, Stop: 37816, Start Num: 10

Candidate Starts for Foxboro_46:

(Start: 10 @37514 has 29 MA's),

Gene: GRU1_35 Start: 29266, Stop: 29568, Start Num: 10

Candidate Starts for GRU1_35:

(Start: 10 @29266 has 29 MA's), (15, 29335), (21, 29389), (24, 29491),

Gene: GTE5_37 Start: 30576, Stop: 30878, Start Num: 10

Candidate Starts for GTE5_37:

(Start: 10 @30576 has 29 MA's),

Gene: GTE8_34 Start: 30263, Stop: 30565, Start Num: 10

Candidate Starts for GTE8_34:

(1, 29111), (2, 29186), (3, 29282), (4, 29327), (5, 29330), (7, 29789), (Start: 10 @30263 has 29 MA's),
(15, 30332),

Gene: GrootJr_47 Start: 36390, Stop: 36692, Start Num: 10

Candidate Starts for GrootJr_47:

(Start: 10 @36390 has 29 MA's),

Gene: Jifall16_44 Start: 36662, Stop: 36964, Start Num: 10

Candidate Starts for Jifall16_44:

(Start: 10 @36662 has 29 MA's),

Gene: Kabluna_49 Start: 36085, Stop: 36384, Start Num: 10

Candidate Starts for Kabluna_49:

(Start: 10 @36085 has 29 MA's), (Start: 12 @36106 has 2 MA's), (15, 36154),

Gene: KidneyBean_45 Start: 36786, Stop: 37088, Start Num: 10

Candidate Starts for KidneyBean_45:

(Start: 10 @36786 has 29 MA's),

Gene: Kurt_45 Start: 37023, Stop: 37325, Start Num: 10

Candidate Starts for Kurt_45:

(Start: 10 @37023 has 29 MA's),

Gene: Lollipop1437_51 Start: 37999, Stop: 38298, Start Num: 10

Candidate Starts for Lollipop1437_51:

(Start: 10 @37999 has 29 MA's), (Start: 12 @38020 has 2 MA's), (15, 38068),

Gene: MerCougar_47 Start: 37269, Stop: 37586, Start Num: 10

Candidate Starts for MerCougar_47:

(Start: 10 @37269 has 29 MA's), (16, 37356), (19, 37374),

Gene: NatB6_45 Start: 36059, Stop: 36382, Start Num: 10

Candidate Starts for NatB6_45:

(Start: 10 @36059 has 29 MA's), (13, 36098), (16, 36146), (17, 36149), (24, 36302),

Gene: NosilaM_49 Start: 36982, Stop: 37281, Start Num: 10

Candidate Starts for NosilaM_49:

(3, 36001), (4, 36046), (5, 36049), (6, 36505), (8, 36607), (Start: 10 @36982 has 29 MA's), (Start: 12 @37003 has 2 MA's), (15, 37051),

Gene: NovumRegina_45 Start: 36389, Stop: 36691, Start Num: 10

Candidate Starts for NovumRegina_45:

(Start: 10 @36389 has 29 MA's),

Gene: Outis_47 Start: 36963, Stop: 37280, Start Num: 10

Candidate Starts for Outis_47:

(Start: 10 @36963 has 29 MA's), (16, 37050), (19, 37068),

Gene: Patio_49 Start: 37235, Stop: 37534, Start Num: 10

Candidate Starts for Patio_49:

(Start: 10 @37235 has 29 MA's), (Start: 12 @37256 has 2 MA's), (15, 37304),

Gene: Phomeo_44 Start: 36658, Stop: 36960, Start Num: 10

Candidate Starts for Phomeo_44:

(Start: 10 @36658 has 29 MA's),

Gene: Pupper_127 Start: 84069, Stop: 84371, Start Num: 10

Candidate Starts for Pupper_127:

(9, 83940), (Start: 10 @84069 has 29 MA's), (Start: 11 @84087 has 2 MA's), (14, 84132), (15, 84138), (25, 84297),

Gene: RedRaider_53 Start: 39275, Stop: 39553, Start Num: 12

Candidate Starts for RedRaider_53:

(Start: 10 @39254 has 29 MA's), (Start: 12 @39275 has 2 MA's), (15, 39323),

Gene: SCentae_126 Start: 84222, Stop: 84524, Start Num: 10

Candidate Starts for SCentae_126:

(9, 84093), (Start: 10 @84222 has 29 MA's), (Start: 11 @84240 has 2 MA's), (14, 84285), (15, 84291), (25, 84450),

Gene: Skog_189 Start: 113970, Stop: 114254, Start Num: 11

Candidate Starts for Skog_189:

(Start: 10 @113952 has 29 MA's), (Start: 11 @113970 has 2 MA's), (14, 114015), (15, 114021), (22, 114147),

Gene: Skysand_48 Start: 37455, Stop: 37754, Start Num: 10

Candidate Starts for Skysand_48:

(Start: 10 @37455 has 29 MA's), (Start: 12 @37476 has 2 MA's), (15, 37524),

Gene: StarStruck_47 Start: 36963, Stop: 37280, Start Num: 10

Candidate Starts for StarStruck_47:

(Start: 10 @36963 has 29 MA's), (16, 37050), (19, 37068),

Gene: SuperSulley_47 Start: 37149, Stop: 37448, Start Num: 10

Candidate Starts for SuperSulley_47:

(Start: 10 @37149 has 29 MA's), (Start: 12 @37170 has 2 MA's), (13, 37188), (15, 37218),

Gene: Tracker_45 Start: 35786, Stop: 36109, Start Num: 10

Candidate Starts for Tracker_45:

(Start: 10 @35786 has 29 MA's), (13, 35825), (16, 35873), (18, 35891),

Gene: Turuncu_50 Start: 37381, Stop: 37683, Start Num: 10

Candidate Starts for Turuncu_50:

(Start: 10 @37381 has 29 MA's), (15, 37450), (20, 37498), (23, 37579),

Gene: Wheezy_45 Start: 35991, Stop: 36314, Start Num: 10

Candidate Starts for Wheezy_45:

(Start: 10 @35991 has 29 MA's), (13, 36030), (16, 36078), (17, 36081),