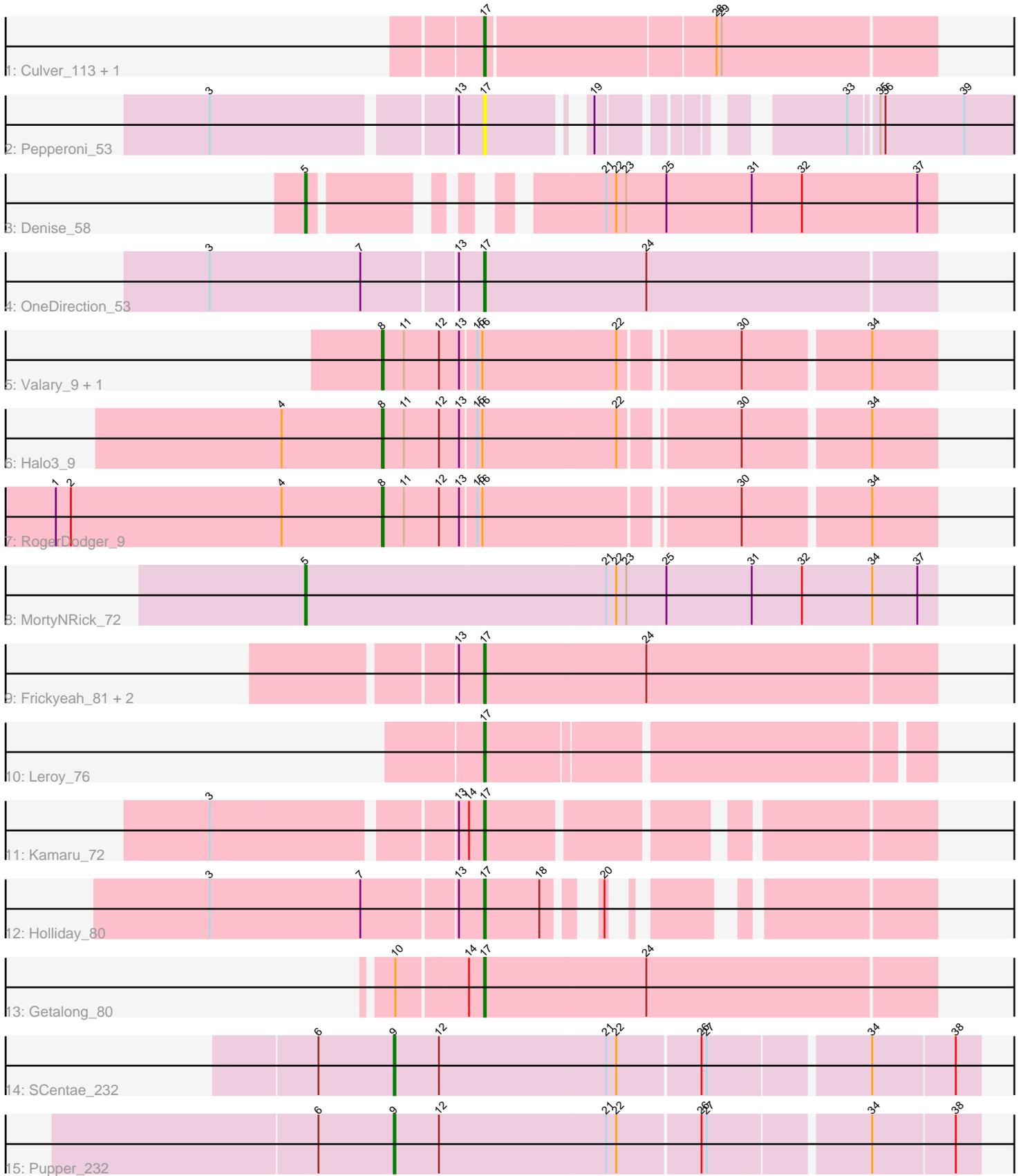


Pham 291569



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 291569 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291569 has 19 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Culver_113, Abscondus_112
- Track 2 : Pepperoni_53
- Track 3 : Denise_58
- Track 4 : OneDirection_53
- Track 5 : Valary_9, CherryCola_10
- Track 6 : Halo3_9
- Track 7 : RogerDodger_9
- Track 8 : MortyNRick_72
- Track 9 : Frickyeah_81, BotCity_81, BENtherdunthat_79
- Track 10 : Leroy_76
- Track 11 : Kamaru_72
- Track 12 : Holliday_80
- Track 13 : Getalong_80
- Track 14 : SCentae_232
- Track 15 : Pupper_232

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

The start number called the most often in the published annotations is 17, it was called in 9 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_112, BENtherdunthat_79, BotCity_81, Culver_113, Frickyeah_81, Getalong_80, Holliday_80, Kamaru_72, Leroy_76, OneDirection_53, Pepperoni_53,

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

-

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

- CherryCola_10, Denise_58, Halo3_9, MortyNRick_72, Pupper_232, RogerDodger_9, SCentae_232, Valary_9,

Summary by start number:

Start 5:

- Found in 2 of 19 (10.5%) 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: Denise_58 (CZ5), MortyNRick_72 (DN),

Start 8:

- Found in 4 of 19 (21.1%) of genes in pham
- Manual Annotations of this start: 3 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CherryCola_10 (DC1), Halo3_9 (DC1), RogerDodger_9 (DC1), Valary_9 (DC1),

Start 9:

- Found in 2 of 19 (10.5%) 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: Pupper_232 (DO), SCentae_232 (DO),

Start 17:

- Found in 11 of 19 (57.9%) of genes in pham
- Manual Annotations of this start: 9 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_112 (CQ1), BENTherdunthat_79 (DN1), BotCity_81 (DN), Culver_113 (CQ1), Frickyeah_81 (DN1), Getalong_80 (DN1), Holliday_80 (DN1), Kamaru_72 (DN1), Leroy_76 (DN1), OneDirection_53 (CZ6), Pepperoni_53 (CZ),

Summary by clusters:

There are 8 clusters represented in this pham: DN, DO, CZ6, CZ5, CZ, DN1, CQ1, DC1,

Info for manual annotations of cluster CQ1:

- Start number 17 was manually annotated 2 times for cluster CQ1.

Info for manual annotations of cluster CZ5:

- Start number 5 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:

- Start number 17 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DC1:

- Start number 8 was manually annotated 3 times for cluster DC1.

Info for manual annotations of cluster DN:

- Start number 5 was manually annotated 1 time for cluster DN.
- Start number 17 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 17 was manually annotated 5 times for cluster DN1.

Info for manual annotations of cluster DO:

•Start number 9 was manually annotated 2 times for cluster DO.

Gene Information:

Gene: Abscondus_112 Start: 65388, Stop: 65648, Start Num: 17

Candidate Starts for Abscondus_112:

(Start: 17 @65388 has 9 MA's), (28, 65520), (29, 65523),

Gene: BENtherdunthat_79 Start: 44974, Stop: 45240, Start Num: 17

Candidate Starts for BENtherdunthat_79:

(13, 44959), (Start: 17 @44974 has 9 MA's), (24, 45070),

Gene: BotCity_81 Start: 46482, Stop: 46748, Start Num: 17

Candidate Starts for BotCity_81:

(13, 46467), (Start: 17 @46482 has 9 MA's), (24, 46578),

Gene: CherryCola_10 Start: 4423, Stop: 4731, Start Num: 8

Candidate Starts for CherryCola_10:

(Start: 8 @4423 has 3 MA's), (11, 4435), (12, 4456), (13, 4468), (15, 4477), (16, 4480), (22, 4558), (30, 4621), (34, 4693),

Gene: Culver_113 Start: 64860, Stop: 65120, Start Num: 17

Candidate Starts for Culver_113:

(Start: 17 @64860 has 9 MA's), (28, 64992), (29, 64995),

Gene: Denise_58 Start: 36910, Stop: 37233, Start Num: 5

Candidate Starts for Denise_58:

(Start: 5 @36910 has 2 MA's), (21, 37036), (22, 37042), (23, 37048), (25, 37072), (31, 37123), (32, 37153), (37, 37222),

Gene: Frickyeah_81 Start: 45105, Stop: 45371, Start Num: 17

Candidate Starts for Frickyeah_81:

(13, 45090), (Start: 17 @45105 has 9 MA's), (24, 45201),

Gene: Getalong_80 Start: 46400, Stop: 46666, Start Num: 17

Candidate Starts for Getalong_80:

(10, 46352), (14, 46391), (Start: 17 @46400 has 9 MA's), (24, 46496),

Gene: Halo3_9 Start: 4498, Stop: 4806, Start Num: 8

Candidate Starts for Halo3_9:

(4, 4438), (Start: 8 @4498 has 3 MA's), (11, 4510), (12, 4531), (13, 4543), (15, 4552), (16, 4555), (22, 4633), (30, 4696), (34, 4768),

Gene: Holliday_80 Start: 48011, Stop: 48211, Start Num: 17

Candidate Starts for Holliday_80:

(3, 47852), (7, 47942), (13, 47996), (Start: 17 @48011 has 9 MA's), (18, 48044), (20, 48062),

Gene: Kamaru_72 Start: 43594, Stop: 43830, Start Num: 17

Candidate Starts for Kamaru_72:

(3, 43444), (13, 43579), (14, 43585), (Start: 17 @43594 has 9 MA's),

Gene: Leroy_76 Start: 44184, Stop: 44435, Start Num: 17

Candidate Starts for Leroy_76:

(Start: 17 @44184 has 9 MA's),

Gene: MortyNRick_72 Start: 45215, Stop: 45589, Start Num: 5

Candidate Starts for MortyNRick_72:

(Start: 5 @45215 has 2 MA's), (21, 45392), (22, 45398), (23, 45404), (25, 45428), (31, 45479), (32, 45509), (34, 45551), (37, 45578),

Gene: OneDirection_53 Start: 33352, Stop: 33618, Start Num: 17

Candidate Starts for OneDirection_53:

(3, 33193), (7, 33283), (13, 33337), (Start: 17 @33352 has 9 MA's), (24, 33448),

Gene: Pepperoni_53 Start: 34740, Stop: 35117, Start Num: 17

Candidate Starts for Pepperoni_53:

(3, 34590), (13, 34725), (Start: 17 @34740 has 9 MA's), (19, 34788), (33, 34899), (35, 34914), (36, 34917), (39, 34962),

Gene: Pupper_232 Start: 149879, Stop: 150214, Start Num: 9

Candidate Starts for Pupper_232:

(6, 149834), (Start: 9 @149879 has 2 MA's), (12, 149906), (21, 150005), (22, 150011), (26, 150059), (27, 150062), (34, 150152), (38, 150200),

Gene: RogerDodger_9 Start: 4423, Stop: 4731, Start Num: 8

Candidate Starts for RogerDodger_9:

(1, 4228), (2, 4237), (4, 4363), (Start: 8 @4423 has 3 MA's), (11, 4435), (12, 4456), (13, 4468), (15, 4477), (16, 4480), (30, 4621), (34, 4693),

Gene: SCentae_232 Start: 150365, Stop: 150700, Start Num: 9

Candidate Starts for SCentae_232:

(6, 150320), (Start: 9 @150365 has 2 MA's), (12, 150392), (21, 150491), (22, 150497), (26, 150545), (27, 150548), (34, 150638), (38, 150686),

Gene: Valary_9 Start: 4423, Stop: 4731, Start Num: 8

Candidate Starts for Valary_9:

(Start: 8 @4423 has 3 MA's), (11, 4435), (12, 4456), (13, 4468), (15, 4477), (16, 4480), (22, 4558), (30, 4621), (34, 4693),