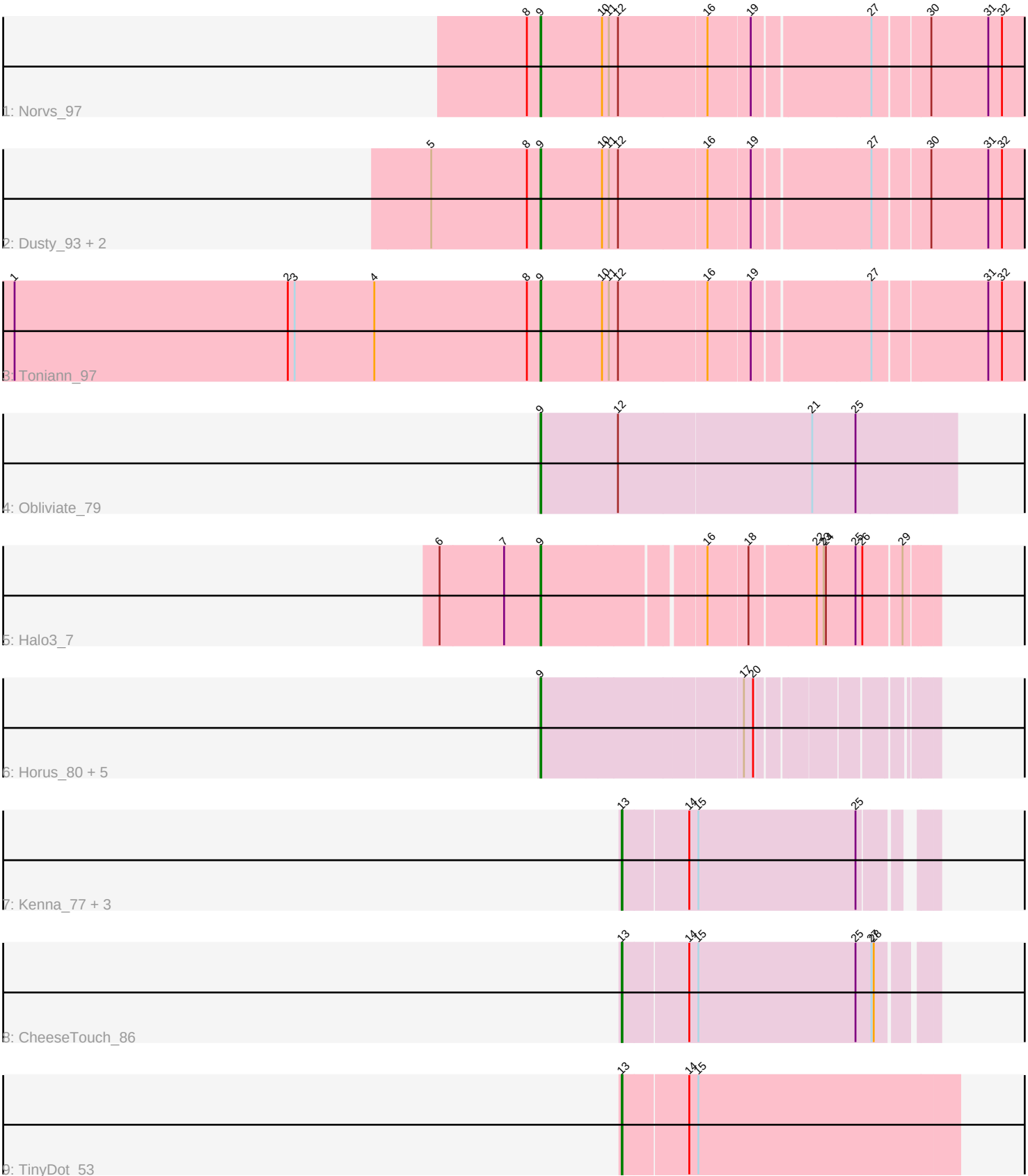


Pham 280912



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 280912 Report

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

Pham number 280912 has 19 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Norvs_97
- Track 2 : Dusty_93, Aphelion_96, Miskis_89
- Track 3 : Toniann_97
- Track 4 : Obliviate_79
- Track 5 : Halo3_7
- Track 6 : Horus_80, Ecliptus_84, Phistory_77, Crater_78, Pepperoni_56, Leroy_79
- Track 7 : Kenna_77, Lutum_83, BENtherdunthat_82, BotCity_84
- Track 8 : CheeseTouch_86
- Track 9 : TinyDot_53

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

The start number called the most often in the published annotations is 9, it was called in 12 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aphelion_96, Crater_78, Dusty_93, Ecliptus_84, Halo3_7, Horus_80, Leroy_79, Miskis_89, Norvs_97, Obliviate_79, Pepperoni_56, Phistory_77, Toniann_97,

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

-

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

- BENtherdunthat_82, BotCity_84, CheeseTouch_86, Kenna_77, Lutum_83, TinyDot_53,

Summary by start number:

Start 9:

- Found in 13 of 19 (68.4%) of genes in pham
- Manual Annotations of this start: 12 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aphelion_96 (CQ1), Crater_78 (DN3), Dusty_93 (CQ1), Ecliptus_84 (DN), Halo3_7 (DC1), Horus_80 (DN1), Leroy_79

(DN1), Miskis_89 (CQ1), Norvs_97 (CQ1), Obliviate_79 (CV), Pepperoni_56 (CZ), Phistory_77 (DN1), Toniann_97 (CQ1),

Start 13:

- Found in 6 of 19 (31.6%) of genes in pham
- Manual Annotations of this start: 6 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BENtherdunthat_82 (DN1), BotCity_84 (DN), CheeseTouch_86 (DN1), Kenna_77 (DN1), Lutum_83 (DN1), TinyDot_53 (singleton),

Summary by clusters:

There are 8 clusters represented in this pham: DN, singleton, CZ, DN1, DN3, CQ1, CV, DC1,

Info for manual annotations of cluster CQ1:

- Start number 9 was manually annotated 5 times for cluster CQ1.

Info for manual annotations of cluster CV:

- Start number 9 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster DC1:

- Start number 9 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DN:

- Start number 9 was manually annotated 1 time for cluster DN.
- Start number 13 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 9 was manually annotated 3 times for cluster DN1.
- Start number 13 was manually annotated 4 times for cluster DN1.

Info for manual annotations of cluster DN3:

- Start number 9 was manually annotated 1 time for cluster DN3.

Gene Information:

Gene: Aphelion_96 Start: 59234, Stop: 59845, Start Num: 9

Candidate Starts for Aphelion_96:

(5, 59090), (8, 59216), (Start: 9 @59234 has 12 MA's), (10, 59315), (11, 59324), (12, 59336), (16, 59450), (19, 59504), (27, 59645), (30, 59714), (31, 59789), (32, 59807),

Gene: BENtherdunthat_82 Start: 46359, Stop: 46736, Start Num: 13

Candidate Starts for BENtherdunthat_82:

(Start: 13 @46359 has 6 MA's), (14, 46440), (15, 46452), (25, 46659),

Gene: BotCity_84 Start: 47888, Stop: 48265, Start Num: 13

Candidate Starts for BotCity_84:

(Start: 13 @47888 has 6 MA's), (14, 47969), (15, 47981), (25, 48188),

Gene: CheeseTouch_86 Start: 42950, Stop: 43342, Start Num: 13
Candidate Starts for CheeseTouch_86:
(Start: 13 @42950 has 6 MA's), (14, 43031), (15, 43043), (25, 43250), (27, 43271), (28, 43274),

Gene: Crater_78 Start: 45182, Stop: 45649, Start Num: 9
Candidate Starts for Crater_78:
(Start: 9 @45182 has 12 MA's), (17, 45437), (20, 45449),

Gene: Dusty_93 Start: 57740, Stop: 58351, Start Num: 9
Candidate Starts for Dusty_93:
(5, 57596), (8, 57722), (Start: 9 @57740 has 12 MA's), (10, 57821), (11, 57830), (12, 57842), (16, 57956), (19, 58010), (27, 58151), (30, 58220), (31, 58295), (32, 58313),

Gene: Ecliptus_84 Start: 48151, Stop: 48618, Start Num: 9
Candidate Starts for Ecliptus_84:
(Start: 9 @48151 has 12 MA's), (17, 48406), (20, 48418),

Gene: Halo3_7 Start: 3546, Stop: 4028, Start Num: 9
Candidate Starts for Halo3_7:
(6, 3414), (7, 3498), (Start: 9 @3546 has 12 MA's), (16, 3744), (18, 3795), (22, 3879), (23, 3888), (24, 3891), (25, 3930), (26, 3939), (29, 3987),

Gene: Horus_80 Start: 47249, Stop: 47716, Start Num: 9
Candidate Starts for Horus_80:
(Start: 9 @47249 has 12 MA's), (17, 47504), (20, 47516),

Gene: Kenna_77 Start: 45632, Stop: 46009, Start Num: 13
Candidate Starts for Kenna_77:
(Start: 13 @45632 has 6 MA's), (14, 45713), (15, 45725), (25, 45932),

Gene: Leroy_79 Start: 45444, Stop: 45911, Start Num: 9
Candidate Starts for Leroy_79:
(Start: 9 @45444 has 12 MA's), (17, 45699), (20, 45711),

Gene: Lutum_83 Start: 46794, Stop: 47171, Start Num: 13
Candidate Starts for Lutum_83:
(Start: 13 @46794 has 6 MA's), (14, 46875), (15, 46887), (25, 47094),

Gene: Miskis_89 Start: 57403, Stop: 58014, Start Num: 9
Candidate Starts for Miskis_89:
(5, 57259), (8, 57385), (Start: 9 @57403 has 12 MA's), (10, 57484), (11, 57493), (12, 57505), (16, 57619), (19, 57673), (27, 57814), (30, 57883), (31, 57958), (32, 57976),

Gene: Norvs_97 Start: 58732, Stop: 59343, Start Num: 9
Candidate Starts for Norvs_97:
(8, 58714), (Start: 9 @58732 has 12 MA's), (10, 58813), (11, 58822), (12, 58834), (16, 58948), (19, 59002), (27, 59143), (30, 59212), (31, 59287), (32, 59305),

Gene: Obliviate_79 Start: 48067, Stop: 48606, Start Num: 9
Candidate Starts for Obliviate_79:
(Start: 9 @48067 has 12 MA's), (12, 48169), (21, 48421), (25, 48478),

Gene: Pepperoni_56 Start: 35924, Stop: 36391, Start Num: 9

Candidate Starts for Pepperoni_56:

(Start: 9 @35924 has 12 MA's), (17, 36179), (20, 36191),

Gene: Phistory_77 Start: 44347, Stop: 44814, Start Num: 9

Candidate Starts for Phistory_77:

(Start: 9 @44347 has 12 MA's), (17, 44602), (20, 44614),

Gene: TinyDot_53 Start: 33756, Stop: 34190, Start Num: 13

Candidate Starts for TinyDot_53:

(Start: 13 @33756 has 6 MA's), (14, 33837), (15, 33849),

Gene: Toniann_97 Start: 58672, Stop: 59283, Start Num: 9

Candidate Starts for Toniann_97:

(1, 57979), (2, 58339), (3, 58348), (4, 58453), (8, 58654), (Start: 9 @58672 has 12 MA's), (10, 58753),
(11, 58762), (12, 58774), (16, 58888), (19, 58942), (27, 59083), (31, 59227), (32, 59245),