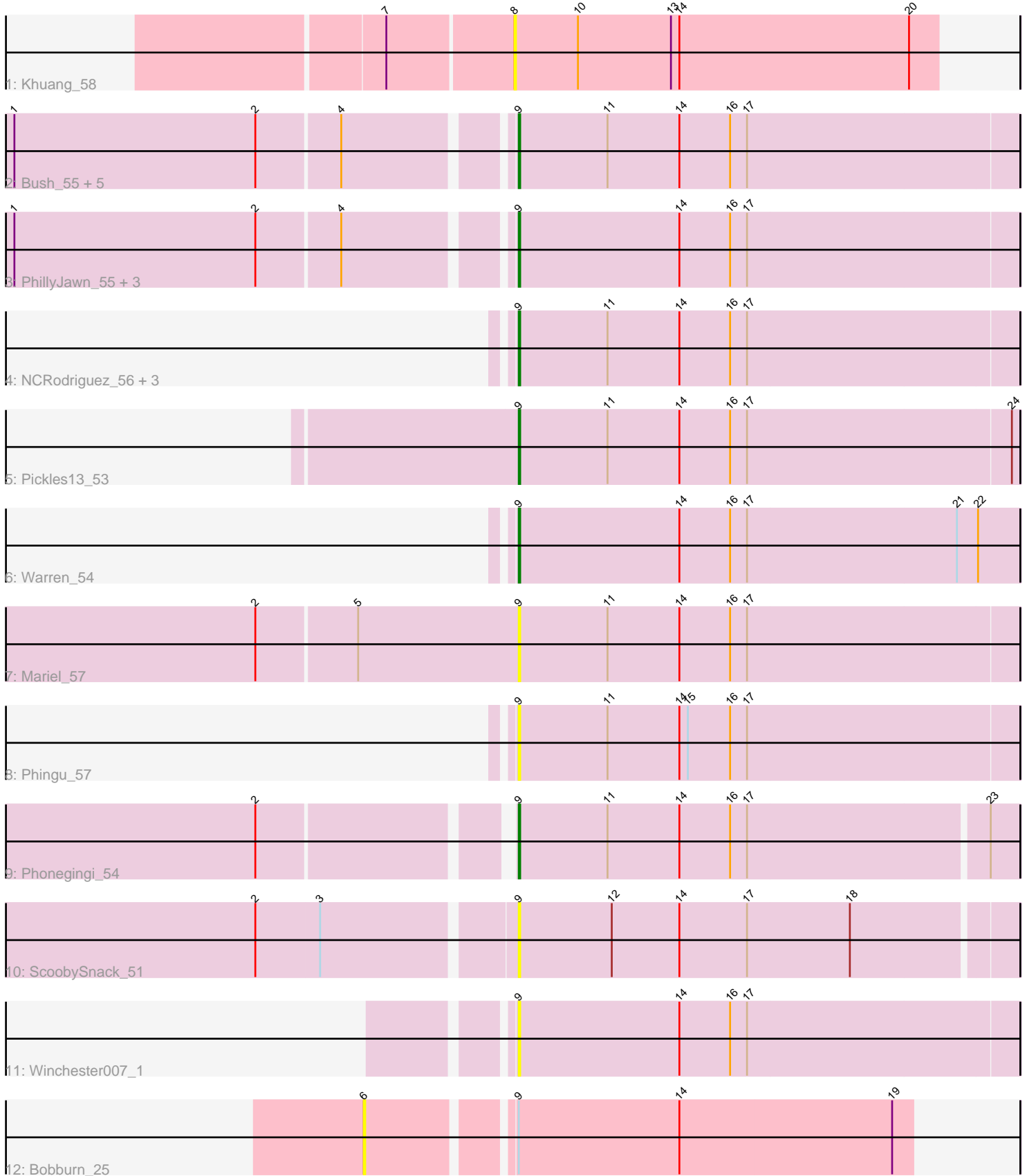


Pham 309216



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 309216 Report

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

Pham number 309216 has 23 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Khuang_58
- Track 2 : Bush_55, Jakelyne_57, CookieDog_54, Losacky_56, Carrillo_56, Violeta_56
- Track 3 : PhillyJawn_55, Dropshot_54, Guzman_54, Appa_54
- Track 4 : NCRodriguez_56, Antuna_56, MenE_56, Blett_54
- Track 5 : Pickles13_53
- Track 6 : Warren_54
- Track 7 : Mariel_57
- Track 8 : Phingu_57
- Track 9 : Phonegingi_54
- Track 10 : ScoobySnack_51
- Track 11 : Winchester007_1
- Track 12 : Bobburn_25

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 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antuna_56, Appa_54, Blett_54, Bush_55, Carrillo_56, CookieDog_54, Dropshot_54, Guzman_54, Jakelyne_57, Losacky_56, Mariel_57, MenE_56, NCRodriguez_56, PhillyJawn_55, Phingu_57, Phonegingi_54, Pickles13_53, ScoobySnack_51, Violeta_56, Warren_54, Winchester007_1,

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

- Bobburn_25,

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

- Khuang_58,

Summary by start number:

Start 6:

- Found in 1 of 23 (4.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bobburn_25 (singleton),

Start 8:

- Found in 1 of 23 (4.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Khuang_58 (FS),

Start 9:

- Found in 22 of 23 (95.7%) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 95.5% of time when present
- Phage (with cluster) where this start called: Antuna_56 (GA), Appa_54 (GA), Blett_54 (GA), Bush_55 (GA), Carrillo_56 (GA), CookieDog_54 (GA), Dropshot_54 (GA), Guzman_54 (GA), Jakelyne_57 (GA), Losacky_56 (GA), Mariel_57 (GA), MenE_56 (GA), NCRodriguez_56 (GA), PhillyJawn_55 (GA), Phingu_57 (GA), Phonegingi_54 (GA), Pickles13_53 (GA), ScoobySnack_51 (GA), Violeta_56 (GA), Warren_54 (GA), Winchester007_1 (GA),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, FS, GA,

Info for manual annotations of cluster GA:

- Start number 9 was manually annotated 11 times for cluster GA.

Gene Information:

Gene: Antuna_56 Start: 33055, Stop: 33405, Start Num: 9

Candidate Starts for Antuna_56:

(Start: 9 @33055 has 11 MA's), (11, 33118), (14, 33169), (16, 33205), (17, 33217),

Gene: Appa_54 Start: 32820, Stop: 33170, Start Num: 9

Candidate Starts for Appa_54:

(1, 32484), (2, 32655), (4, 32712), (Start: 9 @32820 has 11 MA's), (14, 32934), (16, 32970), (17, 32982),

Gene: Blett_54 Start: 33005, Stop: 33355, Start Num: 9

Candidate Starts for Blett_54:

(Start: 9 @33005 has 11 MA's), (11, 33068), (14, 33119), (16, 33155), (17, 33167),

Gene: Bobburn_25 Start: 16694, Stop: 17065, Start Num: 6

Candidate Starts for Bobburn_25:

(6, 16694), (Start: 9 @16787 has 11 MA's), (14, 16901), (19, 17051),

Gene: Bush_55 Start: 32954, Stop: 33304, Start Num: 9

Candidate Starts for Bush_55:

(1, 32618), (2, 32789), (4, 32846), (Start: 9 @32954 has 11 MA's), (11, 33017), (14, 33068), (16, 33104), (17, 33116),

Gene: Carrillo_56 Start: 32928, Stop: 33278, Start Num: 9

Candidate Starts for Carrillo_56:

(1, 32592), (2, 32763), (4, 32820), (Start: 9 @32928 has 11 MA's), (11, 32991), (14, 33042), (16, 33078), (17, 33090),

Gene: CookieDog_54 Start: 32928, Stop: 33278, Start Num: 9

Candidate Starts for CookieDog_54:

(1, 32592), (2, 32763), (4, 32820), (Start: 9 @32928 has 11 MA's), (11, 32991), (14, 33042), (16, 33078), (17, 33090),

Gene: Dropshot_54 Start: 32655, Stop: 33005, Start Num: 9

Candidate Starts for Dropshot_54:

(1, 32319), (2, 32490), (4, 32547), (Start: 9 @32655 has 11 MA's), (14, 32769), (16, 32805), (17, 32817),

Gene: Guzman_54 Start: 32911, Stop: 33261, Start Num: 9

Candidate Starts for Guzman_54:

(1, 32575), (2, 32746), (4, 32803), (Start: 9 @32911 has 11 MA's), (14, 33025), (16, 33061), (17, 33073),

Gene: Jakelyne_57 Start: 33021, Stop: 33371, Start Num: 9

Candidate Starts for Jakelyne_57:

(1, 32685), (2, 32856), (4, 32913), (Start: 9 @33021 has 11 MA's), (11, 33084), (14, 33135), (16, 33171), (17, 33183),

Gene: Khuang_58 Start: 33747, Stop: 34046, Start Num: 8

Candidate Starts for Khuang_58:

(7, 33660), (8, 33747), (10, 33792), (13, 33858), (14, 33864), (20, 34026),

Gene: Losacky_56 Start: 33186, Stop: 33536, Start Num: 9

Candidate Starts for Losacky_56:

(1, 32850), (2, 33021), (4, 33078), (Start: 9 @33186 has 11 MA's), (11, 33249), (14, 33300), (16, 33336), (17, 33348),

Gene: Mariel_57 Start: 33413, Stop: 33763, Start Num: 9

Candidate Starts for Mariel_57:

(2, 33230), (5, 33299), (Start: 9 @33413 has 11 MA's), (11, 33476), (14, 33527), (16, 33563), (17, 33575),

Gene: MenE_56 Start: 33077, Stop: 33427, Start Num: 9

Candidate Starts for MenE_56:

(Start: 9 @33077 has 11 MA's), (11, 33140), (14, 33191), (16, 33227), (17, 33239),

Gene: NCRodriguez_56 Start: 33146, Stop: 33496, Start Num: 9

Candidate Starts for NCRodriguez_56:

(Start: 9 @33146 has 11 MA's), (11, 33209), (14, 33260), (16, 33296), (17, 33308),

Gene: PhillyJawn_55 Start: 32817, Stop: 33167, Start Num: 9

Candidate Starts for PhillyJawn_55:

(1, 32481), (2, 32652), (4, 32709), (Start: 9 @32817 has 11 MA's), (14, 32931), (16, 32967), (17, 32979),

Gene: Phingu_57 Start: 33041, Stop: 33391, Start Num: 9

Candidate Starts for Phingu_57:

(Start: 9 @33041 has 11 MA's), (11, 33104), (14, 33155), (15, 33161), (16, 33191), (17, 33203),

Gene: Phonegingi_54 Start: 32856, Stop: 33203, Start Num: 9

Candidate Starts for Phonegingi_54:

(2, 32694), (Start: 9 @32856 has 11 MA's), (11, 32919), (14, 32970), (16, 33006), (17, 33018), (23, 33183),

Gene: Pickles13_53 Start: 33155, Stop: 33505, Start Num: 9

Candidate Starts for Pickles13_53:

(Start: 9 @33155 has 11 MA's), (11, 33218), (14, 33269), (16, 33305), (17, 33317), (24, 33500),

Gene: ScoobySnack_51 Start: 32635, Stop: 32979, Start Num: 9

Candidate Starts for ScoobySnack_51:

(2, 32461), (3, 32506), (Start: 9 @32635 has 11 MA's), (12, 32701), (14, 32749), (17, 32797), (18, 32869),

Gene: Violeta_56 Start: 32919, Stop: 33269, Start Num: 9

Candidate Starts for Violeta_56:

(1, 32583), (2, 32754), (4, 32811), (Start: 9 @32919 has 11 MA's), (11, 32982), (14, 33033), (16, 33069), (17, 33081),

Gene: Warren_54 Start: 32874, Stop: 33227, Start Num: 9

Candidate Starts for Warren_54:

(Start: 9 @32874 has 11 MA's), (14, 32988), (16, 33024), (17, 33036), (21, 33183), (22, 33198),

Gene: Winchester007_1 Start: 91, Stop: 441, Start Num: 9

Candidate Starts for Winchester007_1:

(Start: 9 @91 has 11 MA's), (14, 205), (16, 241), (17, 253),