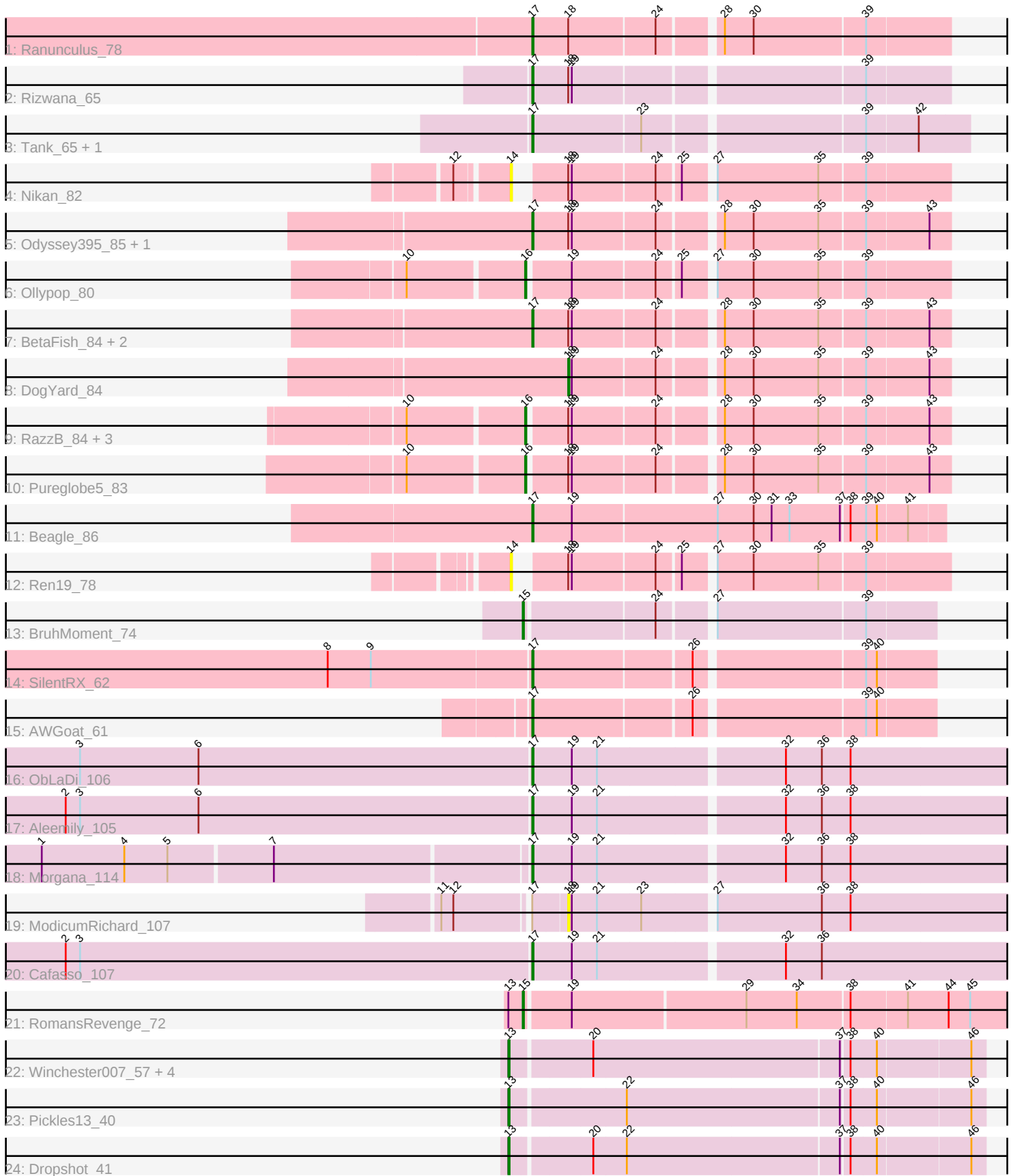


Pham 280655



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 280655 Report

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

Pham number 280655 has 35 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus_78
- Track 2 : Rizwana_65
- Track 3 : Tank_65, Wilde_67
- Track 4 : Nikan_82
- Track 5 : Odyssey395_85, PhuzzTulsa_82
- Track 6 : Ollypop_80
- Track 7 : BetaFish_84, Kubulix_84, Pointis_81
- Track 8 : DogYard_84
- Track 9 : RazzB_84, Forrestell_84, MellowYellow_85, NyleyClemson_84
- Track 10 : Pureglobe5_83
- Track 11 : Beagle_86
- Track 12 : Ren19_78
- Track 13 : BruhMoment_74
- Track 14 : SilentRX_62
- Track 15 : AWGoat_61
- Track 16 : ObLaDi_106
- Track 17 : Aleemily_105
- Track 18 : Morgana_114
- Track 19 : ModicumRichard_107
- Track 20 : Cafasso_107
- Track 21 : RomansRevenge_72
- Track 22 : Winchester007_57, Losacky_42, PhillyJawn_42, Guzman_41, Appa_41
- Track 23 : Pickles13_40
- Track 24 : Dropshot_41

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 14 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AWGoat_61, Aleemily_105, Beagle_86, BetaFish_84, Cafasso_107, Kubulix_84, Morgana_114, ObLaDi_106, Odyssey395_85, PhuzzTulsa_82, Pointis_81, Ranunculus_78, Rizwana_65, SilentRX_62, Tank_65, Wilde_67,

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

- ModicumRichard_107,

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

- Appa_41, BruhMoment_74, DogYard_84, Dropshot_41, Forrestell_84, Guzman_41, Losacky_42, MellowYellow_85, Nikan_82, NyleyClemson_84, Ollypop_80, PhillyJawn_42, Pickles13_40, Pureglobe5_83, RazzB_84, Ren19_78, RomansRevenge_72, Winchester007_57,

Summary by start number:

Start 13:

- Found in 8 of 35 (22.9%) of genes in pham
- Manual Annotations of this start: 4 of 26
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Appa_41 (GA), Dropshot_41 (GA), Guzman_41 (GA), Losacky_42 (GA), PhillyJawn_42 (GA), Pickles13_40 (GA), Winchester007_57 (GA),

Start 14:

- Found in 2 of 35 (5.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nikan_82 (AP2), Ren19_78 (AP2),

Start 15:

- Found in 2 of 35 (5.7%) of genes in pham
- Manual Annotations of this start: 2 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BruhMoment_74 (AP3), RomansRevenge_72 (FT),

Start 16:

- Found in 6 of 35 (17.1%) of genes in pham
- Manual Annotations of this start: 5 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Forrestell_84 (AP2), MellowYellow_85 (AP2), NyleyClemson_84 (AP2), Ollypop_80 (AP2), Pureglobe5_83 (AP2), RazzB_84 (AP2),

Start 17:

- Found in 17 of 35 (48.6%) of genes in pham
- Manual Annotations of this start: 14 of 26
- Called 94.1% of time when present
- Phage (with cluster) where this start called: AWGoat_61 (AP4), Aleemily_105 (DZ), Beagle_86 (AP2), BetaFish_84 (AP2), Cafasso_107 (DZ), Kubulix_84 (AP2), Morgana_114 (DZ), ObLaDi_106 (DZ), Odyssey395_85 (AP2), PhuzzTulsa_82 (AP2), Pointis_81 (AP2), Ranunculus_78 (AP), Rizwana_65 (AP1), SilentRX_62 (AP4), Tank_65 (AP1), Wilde_67 (AP1),

Start 18:

- Found in 16 of 35 (45.7%) of genes in pham

- Manual Annotations of this start: 1 of 26
- Called 12.5% of time when present
- Phage (with cluster) where this start called: DogYard_84 (AP2), ModicumRichard_107 (DZ),

Summary by clusters:

There are 8 clusters represented in this pham: FT, AP2, AP3, AP1, AP4, AP, DZ, GA,

Info for manual annotations of cluster AP:

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

Info for manual annotations of cluster AP1:

- Start number 17 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 16 was manually annotated 5 times for cluster AP2.
- Start number 17 was manually annotated 4 times for cluster AP2.
- Start number 18 was manually annotated 1 time for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 15 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 17 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster DZ:

- Start number 17 was manually annotated 4 times for cluster DZ.

Info for manual annotations of cluster FT:

- Start number 15 was manually annotated 1 time for cluster FT.

Info for manual annotations of cluster GA:

- Start number 13 was manually annotated 4 times for cluster GA.

Gene Information:

Gene: AWGoat_61 Start: 44482, Stop: 44168, Start Num: 17

Candidate Starts for AWGoat_61:

(Start: 17 @44482 has 14 MA's), (26, 44356), (39, 44224), (40, 44215),

Gene: Aleemily_105 Start: 59933, Stop: 60322, Start Num: 17

Candidate Starts for Aleemily_105:

(2, 59546), (3, 59558), (6, 59657), (Start: 17 @59933 has 14 MA's), (19, 59966), (21, 59987), (32, 60134), (36, 60164), (38, 60188),

Gene: Appa_41 Start: 25620, Stop: 25997, Start Num: 13

Candidate Starts for Appa_41:

(Start: 13 @25620 has 4 MA's), (20, 25683), (37, 25884), (38, 25890), (40, 25911), (46, 25986),

Gene: Beagle_86 Start: 50592, Stop: 50260, Start Num: 17

Candidate Starts for Beagle_86:

(Start: 17 @50592 has 14 MA's), (19, 50559), (27, 50442), (30, 50412), (31, 50397), (33, 50382), (37, 50340), (38, 50334), (39, 50322), (40, 50313), (41, 50289),

Gene: BetaFish_84 Start: 50810, Stop: 50484, Start Num: 17

Candidate Starts for BetaFish_84:

(Start: 17 @50810 has 14 MA's), (Start: 18 @50780 has 1 MA's), (19, 50777), (24, 50711), (28, 50666), (30, 50642), (35, 50588), (39, 50552), (43, 50501),

Gene: BruhMoment_74 Start: 49610, Stop: 49293, Start Num: 15

Candidate Starts for BruhMoment_74:

(Start: 15 @49610 has 2 MA's), (24, 49508), (27, 49469), (39, 49349),

Gene: Cafasso_107 Start: 60484, Stop: 60873, Start Num: 17

Candidate Starts for Cafasso_107:

(2, 60097), (3, 60109), (Start: 17 @60484 has 14 MA's), (19, 60517), (21, 60538), (32, 60685), (36, 60715),

Gene: DogYard_84 Start: 50267, Stop: 49971, Start Num: 18

Candidate Starts for DogYard_84:

(Start: 18 @50267 has 1 MA's), (19, 50264), (24, 50198), (28, 50153), (30, 50129), (35, 50075), (39, 50039), (43, 49988),

Gene: Dropshot_41 Start: 25455, Stop: 25832, Start Num: 13

Candidate Starts for Dropshot_41:

(Start: 13 @25455 has 4 MA's), (20, 25518), (22, 25545), (37, 25719), (38, 25725), (40, 25746), (46, 25821),

Gene: Forrestell_84 Start: 49543, Stop: 49217, Start Num: 16

Candidate Starts for Forrestell_84:

(10, 49636), (Start: 16 @49543 has 5 MA's), (Start: 18 @49513 has 1 MA's), (19, 49510), (24, 49444), (28, 49399), (30, 49375), (35, 49321), (39, 49285), (43, 49234),

Gene: Guzman_41 Start: 25719, Stop: 26096, Start Num: 13

Candidate Starts for Guzman_41:

(Start: 13 @25719 has 4 MA's), (20, 25782), (37, 25983), (38, 25989), (40, 26010), (46, 26085),

Gene: Kubulix_84 Start: 49967, Stop: 49641, Start Num: 17

Candidate Starts for Kubulix_84:

(Start: 17 @49967 has 14 MA's), (Start: 18 @49937 has 1 MA's), (19, 49934), (24, 49868), (28, 49823), (30, 49799), (35, 49745), (39, 49709), (43, 49658),

Gene: Losacky_42 Start: 25840, Stop: 26217, Start Num: 13

Candidate Starts for Losacky_42:

(Start: 13 @25840 has 4 MA's), (20, 25903), (37, 26104), (38, 26110), (40, 26131), (46, 26206),

Gene: MellowYellow_85 Start: 50209, Stop: 49883, Start Num: 16

Candidate Starts for MellowYellow_85:

(10, 50302), (Start: 16 @50209 has 5 MA's), (Start: 18 @50179 has 1 MA's), (19, 50176), (24, 50110), (28, 50065), (30, 50041), (35, 49987), (39, 49951), (43, 49900),

Gene: ModicumRichard_107 Start: 60796, Stop: 61155, Start Num: 18

Candidate Starts for ModicumRichard_107:

(11, 60703), (12, 60712), (Start: 17 @60769 has 14 MA's), (Start: 18 @60796 has 1 MA's), (19, 60799), (21, 60820), (23, 60856), (27, 60910), (36, 60997), (38, 61021),

Gene: Morgana_114 Start: 62857, Stop: 63246, Start Num: 17

Candidate Starts for Morgana_114:

(1, 62464), (4, 62533), (5, 62569), (7, 62653), (Start: 17 @62857 has 14 MA's), (19, 62890), (21, 62911), (32, 63058), (36, 63088), (38, 63112),

Gene: Nikan_82 Start: 50187, Stop: 49861, Start Num: 14

Candidate Starts for Nikan_82:

(12, 50226), (14, 50187), (Start: 18 @50157 has 1 MA's), (19, 50154), (24, 50088), (25, 50070), (27, 50049), (35, 49965), (39, 49929),

Gene: NyleyClemson_84 Start: 49827, Stop: 49501, Start Num: 16

Candidate Starts for NyleyClemson_84:

(10, 49920), (Start: 16 @49827 has 5 MA's), (Start: 18 @49797 has 1 MA's), (19, 49794), (24, 49728), (28, 49683), (30, 49659), (35, 49605), (39, 49569), (43, 49518),

Gene: ObLaDi_106 Start: 60168, Stop: 60557, Start Num: 17

Candidate Starts for ObLaDi_106:

(3, 59793), (6, 59892), (Start: 17 @60168 has 14 MA's), (19, 60201), (21, 60222), (32, 60369), (36, 60399), (38, 60423),

Gene: Odyssey395_85 Start: 50318, Stop: 49992, Start Num: 17

Candidate Starts for Odyssey395_85:

(Start: 17 @50318 has 14 MA's), (Start: 18 @50288 has 1 MA's), (19, 50285), (24, 50219), (28, 50174), (30, 50150), (35, 50096), (39, 50060), (43, 50009),

Gene: Ollypop_80 Start: 50972, Stop: 50646, Start Num: 16

Candidate Starts for Ollypop_80:

(10, 51065), (Start: 16 @50972 has 5 MA's), (19, 50939), (24, 50873), (25, 50855), (27, 50834), (30, 50804), (35, 50750), (39, 50714),

Gene: PhillyJawn_42 Start: 25617, Stop: 25994, Start Num: 13

Candidate Starts for PhillyJawn_42:

(Start: 13 @25617 has 4 MA's), (20, 25680), (37, 25881), (38, 25887), (40, 25908), (46, 25983),

Gene: PhuzzTulsa_82 Start: 50446, Stop: 50120, Start Num: 17

Candidate Starts for PhuzzTulsa_82:

(Start: 17 @50446 has 14 MA's), (Start: 18 @50416 has 1 MA's), (19, 50413), (24, 50347), (28, 50302), (30, 50278), (35, 50224), (39, 50188), (43, 50137),

Gene: Pickles13_40 Start: 25930, Stop: 26307, Start Num: 13

Candidate Starts for Pickles13_40:

(Start: 13 @25930 has 4 MA's), (22, 26020), (37, 26194), (38, 26200), (40, 26221), (46, 26296),

Gene: Pointis_81 Start: 49894, Stop: 49568, Start Num: 17

Candidate Starts for Pointis_81:

(Start: 17 @49894 has 14 MA's), (Start: 18 @49864 has 1 MA's), (19, 49861), (24, 49795), (28, 49750), (30, 49726), (35, 49672), (39, 49636), (43, 49585),

Gene: Pureglobe5_83 Start: 50341, Stop: 50015, Start Num: 16

Candidate Starts for Pureglobe5_83:

(10, 50434), (Start: 16 @50341 has 5 MA's), (Start: 18 @50311 has 1 MA's), (19, 50308), (24, 50242), (28, 50197), (30, 50173), (35, 50119), (39, 50083), (43, 50032),

Gene: Ranunculus_78 Start: 52647, Stop: 52321, Start Num: 17

Candidate Starts for Ranunculus_78:

(Start: 17 @52647 has 14 MA's), (Start: 18 @52617 has 1 MA's), (24, 52548), (28, 52503), (30, 52479), (39, 52389),

Gene: RazzB_84 Start: 49953, Stop: 49627, Start Num: 16

Candidate Starts for RazzB_84:

(10, 50046), (Start: 16 @49953 has 5 MA's), (Start: 18 @49923 has 1 MA's), (19, 49920), (24, 49854), (28, 49809), (30, 49785), (35, 49731), (39, 49695), (43, 49644),

Gene: Ren19_78 Start: 49730, Stop: 49404, Start Num: 14

Candidate Starts for Ren19_78:

(14, 49730), (Start: 18 @49700 has 1 MA's), (19, 49697), (24, 49631), (25, 49613), (27, 49592), (30, 49562), (35, 49508), (39, 49472),

Gene: Rizwana_65 Start: 46684, Stop: 46358, Start Num: 17

Candidate Starts for Rizwana_65:

(Start: 17 @46684 has 14 MA's), (Start: 18 @46654 has 1 MA's), (19, 46651), (39, 46426),

Gene: RomansRevenge_72 Start: 48362, Stop: 47964, Start Num: 15

Candidate Starts for RomansRevenge_72:

(Start: 13 @48374 has 4 MA's), (Start: 15 @48362 has 2 MA's), (19, 48326), (29, 48185), (34, 48143), (38, 48101), (41, 48056), (44, 48023), (45, 48005),

Gene: SilentRX_62 Start: 45416, Stop: 45102, Start Num: 17

Candidate Starts for SilentRX_62:

(8, 45581), (9, 45545), (Start: 17 @45416 has 14 MA's), (26, 45290), (39, 45158), (40, 45149),

Gene: Tank_65 Start: 46679, Stop: 46338, Start Num: 17

Candidate Starts for Tank_65:

(Start: 17 @46679 has 14 MA's), (23, 46592), (39, 46421), (42, 46379),

Gene: Wilde_67 Start: 46978, Stop: 46637, Start Num: 17

Candidate Starts for Wilde_67:

(Start: 17 @46978 has 14 MA's), (23, 46891), (39, 46720), (42, 46678),

Gene: Winchester007_57 Start: 31732, Stop: 32109, Start Num: 13

Candidate Starts for Winchester007_57:

(Start: 13 @31732 has 4 MA's), (20, 31795), (37, 31996), (38, 32002), (40, 32023), (46, 32098),