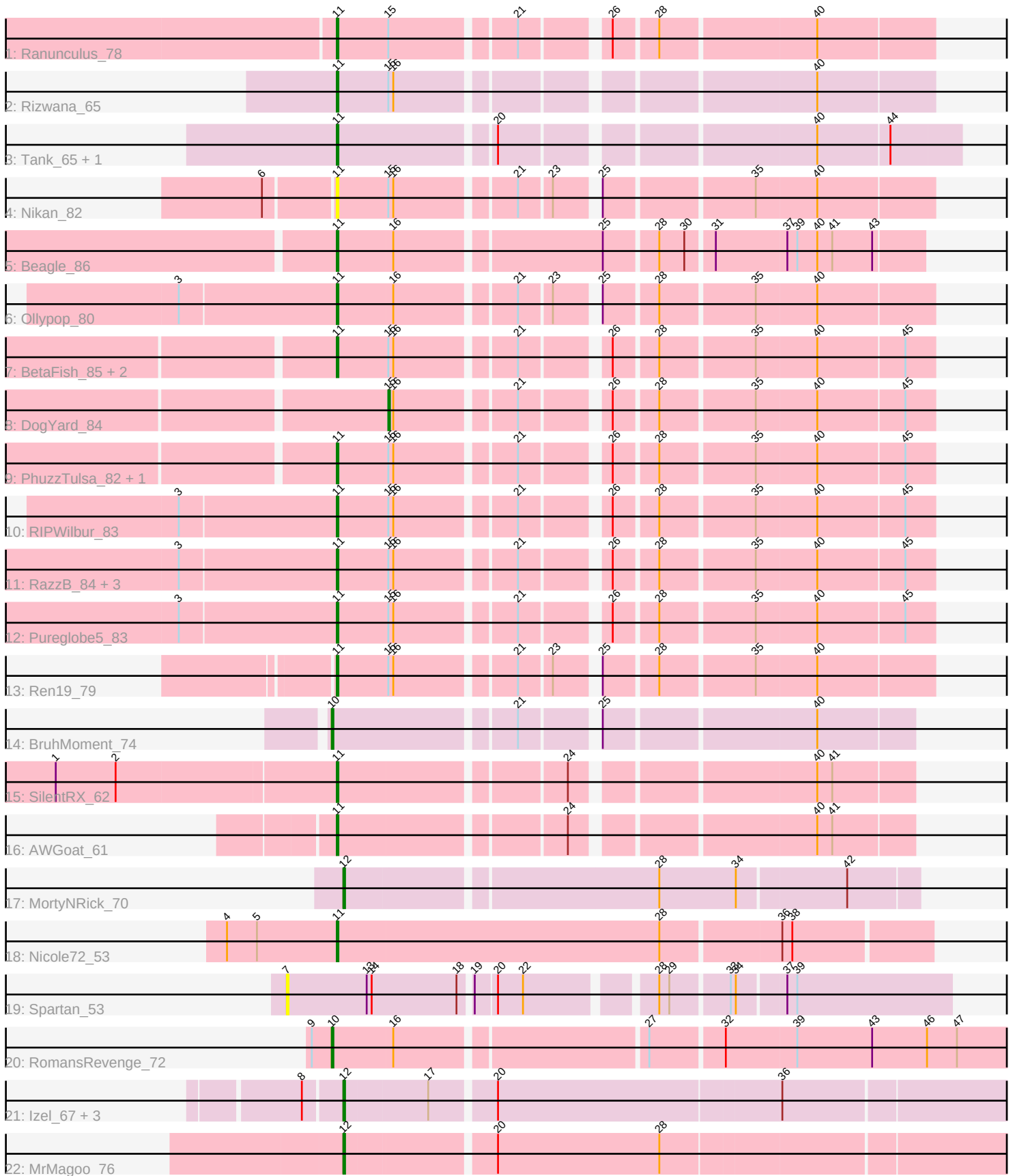


Pham 331090



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 331090 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331090 has 32 members, 3 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 : Beagle_86
- Track 6 : Ollypop_80
- Track 7 : BetaFish_85, Kubulix_84, Pointis_81
- Track 8 : DogYard_84
- Track 9 : PhuzzTulsa_82, Odyssey395_85
- Track 10 : RIPWilbur_83
- Track 11 : RazzB_84, NyleyClemson_83, Forrestell_84, MellowYellow_85
- Track 12 : Pureglobe5_83
- Track 13 : Ren19_79
- Track 14 : BruhMoment_74
- Track 15 : SilentRX_62
- Track 16 : AWGoat_61
- Track 17 : MortyNRick_70
- Track 18 : Nicole72_53
- Track 19 : Spartan_53
- Track 20 : RomansRevenge_72
- Track 21 : Izel_67, Dulcita_67, Glaske16_67, FreakyGoo_67
- Track 22 : MrMagoo_76

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

The start number called the most often in the published annotations is 11, it was called in 20 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AWGoat_61, Beagle_86, BetaFish_85, Forrestell_84, Kubulix_84, MellowYellow_85, Nicole72_53, Nikan_82, NyleyClemson_83, Odyssey395_85, Ollypop_80, PhuzzTulsa_82, Pointis_81, Pureglobe5_83, RIPWilbur_83, Ranunculus_78, RazzB_84, Ren19_79, Rizwana_65, SilentRX_62, Tank_65, Wilde_67,

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

-

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

- BruhMoment_74, DogYard_84, Dulcita_67, FreakyGoo_67, Glaske16_67, Izel_67, MortyNRick_70, MrMagoo_76, RomansRevenge_72, Spartan_53,

Summary by start number:

Start 7:

- Found in 1 of 32 (3.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Spartan_53 (ES),

Start 10:

- Found in 2 of 32 (6.2%) of genes in pham
- Manual Annotations of this start: 2 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BruhMoment_74 (AP3), RomansRevenge_72 (FT),

Start 11:

- Found in 22 of 32 (68.8%) of genes in pham
- Manual Annotations of this start: 20 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AWGoat_61 (AP4), Beagle_86 (AP2), BetaFish_85 (AP2), Forrestell_84 (AP2), Kubulix_84 (AP2), MellowYellow_85 (AP2), Nicole72_53 (EC), Nikan_82 (AP2), NyleyClemson_83 (AP2), Odyssey395_85 (AP2), Ollypop_80 (AP2), PhuzzTulsa_82 (AP2), Pointis_81 (AP2), Pureglobe5_83 (AP2), RIPWilbur_83 (AP2), Ranunculus_78 (AP), RazzB_84 (AP2), Ren19_79 (AP2), Rizwana_65 (AP1), SilentRX_62 (AP4), Tank_65 (AP1), Wilde_67 (AP1),

Start 12:

- Found in 6 of 32 (18.8%) of genes in pham
- Manual Annotations of this start: 6 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dulcita_67 (M1), FreakyGoo_67 (M1), Glaske16_67 (M1), Izel_67 (M1), MortyNRick_70 (DN), MrMagoo_76 (M2),

Start 15:

- Found in 16 of 32 (50.0%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 6.2% of time when present
- Phage (with cluster) where this start called: DogYard_84 (AP2),

Summary by clusters:

There are 11 clusters represented in this pham: DN, FT, AP2, AP3, AP1, AP4, AP, M1, EC, M2, ES,

Info for manual annotations of cluster AP:

- Start number 11 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP1:

- Start number 11 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 11 was manually annotated 13 times for cluster AP2.
- Start number 15 was manually annotated 1 time for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 10 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 11 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster DN:

- Start number 12 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster EC:

- Start number 11 was manually annotated 1 time for cluster EC.

Info for manual annotations of cluster FT:

- Start number 10 was manually annotated 1 time for cluster FT.

Info for manual annotations of cluster M1:

- Start number 12 was manually annotated 4 times for cluster M1.

Info for manual annotations of cluster M2:

- Start number 12 was manually annotated 1 time for cluster M2.

Gene Information:

Gene: AWGoat_61 Start: 44482, Stop: 44168, Start Num: 11

Candidate Starts for AWGoat_61:

(Start: 11 @44482 has 20 MA's), (24, 44356), (40, 44224), (41, 44215),

Gene: Beagle_86 Start: 50592, Stop: 50260, Start Num: 11

Candidate Starts for Beagle_86:

(Start: 11 @50592 has 20 MA's), (16, 50559), (25, 50442), (28, 50412), (30, 50397), (31, 50382), (37, 50340), (39, 50334), (40, 50322), (41, 50313), (43, 50289),

Gene: BetaFish_85 Start: 50810, Stop: 50484, Start Num: 11

Candidate Starts for BetaFish_85:

(Start: 11 @50810 has 20 MA's), (Start: 15 @50780 has 1 MA's), (16, 50777), (21, 50711), (26, 50666), (28, 50642), (35, 50588), (40, 50552), (45, 50501),

Gene: BruhMoment_74 Start: 49610, Stop: 49293, Start Num: 10

Candidate Starts for BruhMoment_74:

(Start: 10 @49610 has 2 MA's), (21, 49508), (25, 49469), (40, 49349),

Gene: DogYard_84 Start: 50267, Stop: 49971, Start Num: 15

Candidate Starts for DogYard_84:

(Start: 15 @50267 has 1 MA's), (16, 50264), (21, 50198), (26, 50153), (28, 50129), (35, 50075), (40, 50039), (45, 49988),

Gene: Dulcita_67 Start: 43444, Stop: 43842, Start Num: 12

Candidate Starts for Dulcita_67:

(8, 43423), (Start: 12 @43444 has 6 MA's), (17, 43492), (20, 43528), (36, 43693),

Gene: Forrestell_84 Start: 49543, Stop: 49217, Start Num: 11

Candidate Starts for Forrestell_84:

(3, 49636), (Start: 11 @49543 has 20 MA's), (Start: 15 @49513 has 1 MA's), (16, 49510), (21, 49444), (26, 49399), (28, 49375), (35, 49321), (40, 49285), (45, 49234),

Gene: FreakyGoo_67 Start: 43444, Stop: 43842, Start Num: 12

Candidate Starts for FreakyGoo_67:

(8, 43423), (Start: 12 @43444 has 6 MA's), (17, 43492), (20, 43528), (36, 43693),

Gene: Glaske16_67 Start: 43443, Stop: 43841, Start Num: 12

Candidate Starts for Glaske16_67:

(8, 43422), (Start: 12 @43443 has 6 MA's), (17, 43491), (20, 43527), (36, 43692),

Gene: Izel_67 Start: 43443, Stop: 43841, Start Num: 12

Candidate Starts for Izel_67:

(8, 43422), (Start: 12 @43443 has 6 MA's), (17, 43491), (20, 43527), (36, 43692),

Gene: Kubulix_84 Start: 49967, Stop: 49641, Start Num: 11

Candidate Starts for Kubulix_84:

(Start: 11 @49967 has 20 MA's), (Start: 15 @49937 has 1 MA's), (16, 49934), (21, 49868), (26, 49823), (28, 49799), (35, 49745), (40, 49709), (45, 49658),

Gene: MellowYellow_85 Start: 50209, Stop: 49883, Start Num: 11

Candidate Starts for MellowYellow_85:

(3, 50302), (Start: 11 @50209 has 20 MA's), (Start: 15 @50179 has 1 MA's), (16, 50176), (21, 50110), (26, 50065), (28, 50041), (35, 49987), (40, 49951), (45, 49900),

Gene: MortyNRick_70 Start: 44625, Stop: 44951, Start Num: 12

Candidate Starts for MortyNRick_70:

(Start: 12 @44625 has 6 MA's), (28, 44802), (34, 44847), (42, 44910),

Gene: MrMagoo_76 Start: 46031, Stop: 46429, Start Num: 12

Candidate Starts for MrMagoo_76:

(Start: 12 @46031 has 6 MA's), (20, 46115), (28, 46211),

Gene: Nicole72_53 Start: 39892, Stop: 40239, Start Num: 11

Candidate Starts for Nicole72_53:

(4, 39826), (5, 39844), (Start: 11 @39892 has 20 MA's), (28, 40084), (36, 40153), (38, 40159),

Gene: Nikan_82 Start: 50187, Stop: 49861, Start Num: 11

Candidate Starts for Nikan_82:

(6, 50226), (Start: 11 @50187 has 20 MA's), (Start: 15 @50157 has 1 MA's), (16, 50154), (21, 50088), (23, 50070), (25, 50049), (35, 49965), (40, 49929),

Gene: NyleyClemson_83 Start: 49827, Stop: 49501, Start Num: 11

Candidate Starts for NyleyClemson_83:

(3, 49920), (Start: 11 @49827 has 20 MA's), (Start: 15 @49797 has 1 MA's), (16, 49794), (21, 49728), (26, 49683), (28, 49659), (35, 49605), (40, 49569), (45, 49518),

Gene: Odyssey395_85 Start: 50318, Stop: 49992, Start Num: 11

Candidate Starts for Odyssey395_85:

(Start: 11 @50318 has 20 MA's), (Start: 15 @50288 has 1 MA's), (16, 50285), (21, 50219), (26, 50174), (28, 50150), (35, 50096), (40, 50060), (45, 50009),

Gene: Ollypop_80 Start: 50972, Stop: 50646, Start Num: 11

Candidate Starts for Ollypop_80:

(3, 51065), (Start: 11 @50972 has 20 MA's), (16, 50939), (21, 50873), (23, 50855), (25, 50834), (28, 50804), (35, 50750), (40, 50714),

Gene: PhuzzTulsa_82 Start: 50446, Stop: 50120, Start Num: 11

Candidate Starts for PhuzzTulsa_82:

(Start: 11 @50446 has 20 MA's), (Start: 15 @50416 has 1 MA's), (16, 50413), (21, 50347), (26, 50302), (28, 50278), (35, 50224), (40, 50188), (45, 50137),

Gene: Pointis_81 Start: 49894, Stop: 49568, Start Num: 11

Candidate Starts for Pointis_81:

(Start: 11 @49894 has 20 MA's), (Start: 15 @49864 has 1 MA's), (16, 49861), (21, 49795), (26, 49750), (28, 49726), (35, 49672), (40, 49636), (45, 49585),

Gene: Pureglobe5_83 Start: 50341, Stop: 50015, Start Num: 11

Candidate Starts for Pureglobe5_83:

(3, 50434), (Start: 11 @50341 has 20 MA's), (Start: 15 @50311 has 1 MA's), (16, 50308), (21, 50242), (26, 50197), (28, 50173), (35, 50119), (40, 50083), (45, 50032),

Gene: RIPWilbur_83 Start: 49861, Stop: 49535, Start Num: 11

Candidate Starts for RIPWilbur_83:

(3, 49954), (Start: 11 @49861 has 20 MA's), (Start: 15 @49831 has 1 MA's), (16, 49828), (21, 49762), (26, 49717), (28, 49693), (35, 49639), (40, 49603), (45, 49552),

Gene: Ranunculus_78 Start: 52647, Stop: 52321, Start Num: 11

Candidate Starts for Ranunculus_78:

(Start: 11 @52647 has 20 MA's), (Start: 15 @52617 has 1 MA's), (21, 52548), (26, 52503), (28, 52479), (40, 52389),

Gene: RazzB_84 Start: 49953, Stop: 49627, Start Num: 11

Candidate Starts for RazzB_84:

(3, 50046), (Start: 11 @49953 has 20 MA's), (Start: 15 @49923 has 1 MA's), (16, 49920), (21, 49854), (26, 49809), (28, 49785), (35, 49731), (40, 49695), (45, 49644),

Gene: Ren19_79 Start: 49730, Stop: 49404, Start Num: 11

Candidate Starts for Ren19_79:

(Start: 11 @49730 has 20 MA's), (Start: 15 @49700 has 1 MA's), (16, 49697), (21, 49631), (23, 49613), (25, 49592), (28, 49562), (35, 49508), (40, 49472),

Gene: Rizwana_65 Start: 46684, Stop: 46358, Start Num: 11

Candidate Starts for Rizwana_65:

(Start: 11 @46684 has 20 MA's), (Start: 15 @46654 has 1 MA's), (16, 46651), (40, 46426),

Gene: RomansRevenge_72 Start: 48362, Stop: 47964, Start Num: 10

Candidate Starts for RomansRevenge_72:

(9, 48374), (Start: 10 @48362 has 2 MA's), (16, 48326), (27, 48185), (32, 48143), (39, 48101), (43, 48056), (46, 48023), (47, 48005),

Gene: SilentRX_62 Start: 45416, Stop: 45102, Start Num: 11

Candidate Starts for SilentRX_62:

(1, 45581), (2, 45545), (Start: 11 @45416 has 20 MA's), (24, 45290), (40, 45158), (41, 45149),

Gene: Spartan_53 Start: 40162, Stop: 40533, Start Num: 7

Candidate Starts for Spartan_53:

(7, 40162), (13, 40210), (14, 40213), (18, 40264), (19, 40270), (20, 40282), (22, 40297), (28, 40366), (29, 40372), (33, 40405), (34, 40408), (37, 40435), (39, 40441),

Gene: Tank_65 Start: 46679, Stop: 46338, Start Num: 11

Candidate Starts for Tank_65:

(Start: 11 @46679 has 20 MA's), (20, 46592), (40, 46421), (44, 46379),

Gene: Wilde_67 Start: 46978, Stop: 46637, Start Num: 11

Candidate Starts for Wilde_67:

(Start: 11 @46978 has 20 MA's), (20, 46891), (40, 46720), (44, 46678),