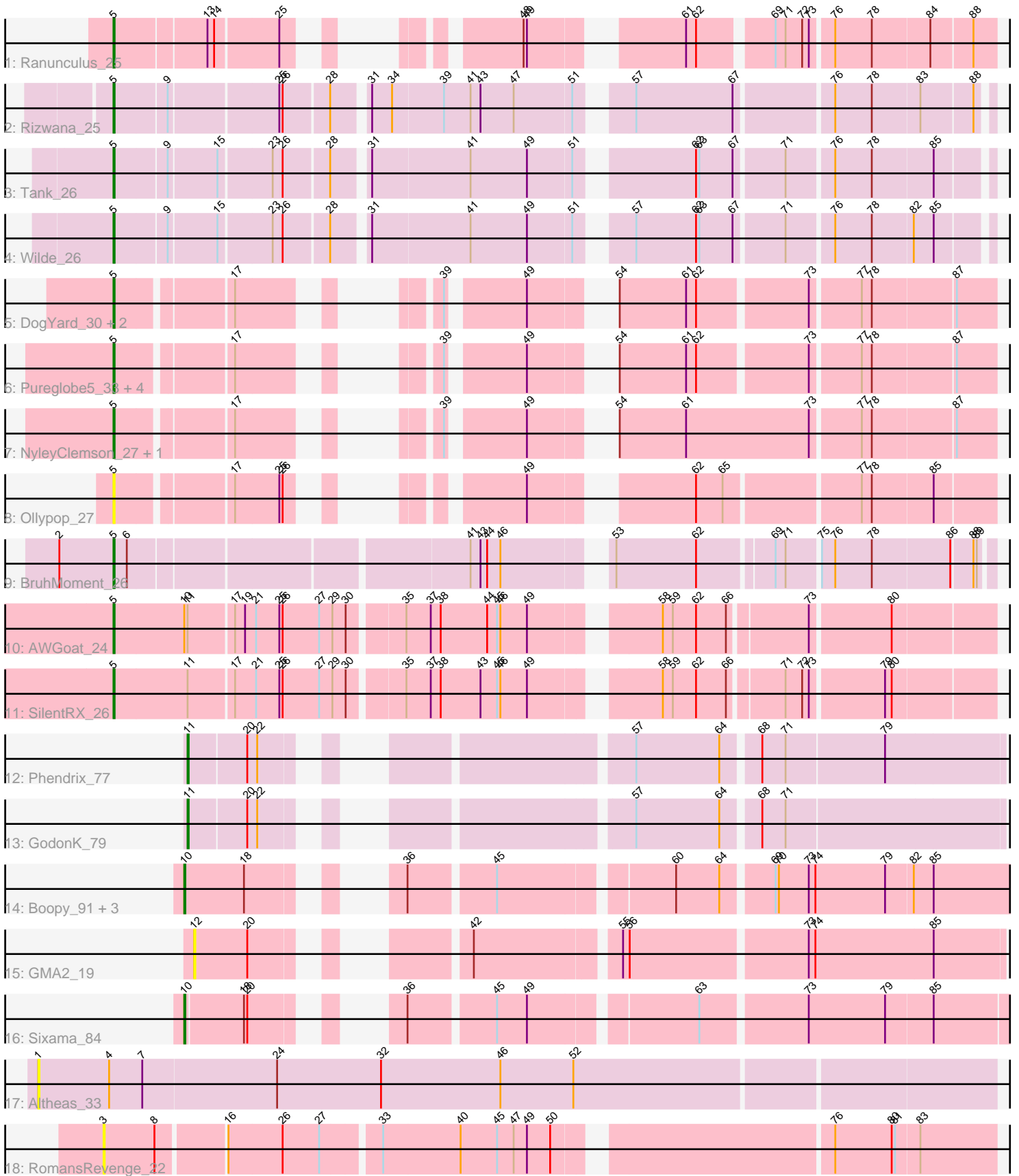


Pham 216454



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 216454 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216454 has 28 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus_25
- Track 2 : Rizwana_25
- Track 3 : Tank_26
- Track 4 : Wilde_26
- Track 5 : DogYard_30, Pointis_31, Odyssey395_33
- Track 6 : Pureglobe5_33, Beagle_32, RazzB_26, Kubulix_30, Forrestell_27
- Track 7 : NyleyClemson_27, MellowYellow_28
- Track 8 : Ollypop_27
- Track 9 : BruhMoment_26
- Track 10 : AWGoat_24
- Track 11 : SilentRX_26
- Track 12 : Phendrix_77
- Track 13 : GodonK_79
- Track 14 : Boopy_91, BlueNGold_90, Forza_91, Mareelih_89
- Track 15 : GMA2_19
- Track 16 : Sixama_84
- Track 17 : Altheas_33
- Track 18 : RomansRevenge_22

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

The start number called the most often in the published annotations is 5, it was called in 12 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AWGoat_24, Beagle_32, BruhMoment_26, DogYard_30, Forrestell_27, Kubulix_30, MellowYellow_28, NyleyClemson_27, Odyssey395_33, Ollypop_27, Pointis_31, Pureglobe5_33, Ranunculus_25, RazzB_26, Rizwana_25, SilentRX_26, Tank_26, Wilde_26,

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

-

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

- Altheas_33, BlueNGold_90, Boopy_91, Forza_91, GMA2_19, GodonK_79, Mareelih_89, Phendrix_77, RomansRevenge_22, Sixama_84,

Summary by start number:

Start 1:

- Found in 1 of 28 (3.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altheas_33 (EG),

Start 3:

- Found in 1 of 28 (3.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RomansRevenge_22 (singleton),

Start 5:

- Found in 18 of 28 (64.3%) of genes in pham
- Manual Annotations of this start: 12 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AWGoat_24 (AP4), Beagle_32 (AP2), BruhMoment_26 (AP3), DogYard_30 (AP2), Forrestell_27 (AP2), Kubulix_30 (AP2), MellowYellow_28 (AP2), NyleyClemson_27 (AP2), Odyssey395_33 (AP2), Ollypop_27 (AP2), Pointis_31 (AP2), Pureglobe5_33 (AP2), Ranunculus_25 (AP), RazzB_26 (AP2), Rizwana_25 (AP1), SilentRX_26 (AP4), Tank_26 (AP1), Wilde_26 (AP1),

Start 10:

- Found in 6 of 28 (21.4%) of genes in pham
- Manual Annotations of this start: 5 of 19
- Called 83.3% of time when present
- Phage (with cluster) where this start called: BlueNGold_90 (DS), Boopy_91 (DS), Forza_91 (DS), Mareelih_89 (DS), Sixama_84 (DS),

Start 11:

- Found in 4 of 28 (14.3%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 50.0% of time when present
- Phage (with cluster) where this start called: GodonK_79 (DK), Phendrix_77 (DK),

Start 12:

- Found in 1 of 28 (3.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA2_19 (DS),

Summary by clusters:

There are 9 clusters represented in this pham: singleton, DK, AP2, AP3, EG, AP1, AP4, AP, DS,

Info for manual annotations of cluster AP:

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

Info for manual annotations of cluster AP1:

- Start number 5 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 5 was manually annotated 5 times for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 5 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 5 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster DK:

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

Info for manual annotations of cluster DS:

- Start number 10 was manually annotated 5 times for cluster DS.

Gene Information:

Gene: AWGoat_24 Start: 19637, Stop: 20371, Start Num: 5

Candidate Starts for AWGoat_24:

(Start: 5 @19637 has 12 MA's), (Start: 10 @19700 has 5 MA's), (Start: 11 @19703 has 2 MA's), (17, 19742), (19, 19751), (21, 19760), (25, 19781), (26, 19784), (27, 19817), (29, 19829), (30, 19841), (35, 19886), (37, 19907), (38, 19916), (44, 19958), (45, 19967), (46, 19970), (49, 19994), (58, 20090), (59, 20099), (62, 20120), (66, 20147), (73, 20213), (80, 20282),

Gene: Altheas_33 Start: 21050, Stop: 21898, Start Num: 1

Candidate Starts for Altheas_33:

(1, 21050), (4, 21113), (7, 21143), (24, 21263), (32, 21356), (46, 21464), (52, 21530),

Gene: Beagle_32 Start: 19188, Stop: 19814, Start Num: 5

Candidate Starts for Beagle_32:

(Start: 5 @19188 has 12 MA's), (17, 19281), (39, 19377), (49, 19437), (54, 19485), (61, 19545), (62, 19554), (73, 19656), (77, 19698), (78, 19707), (87, 19779),

Gene: BlueNGold_90 Start: 48158, Stop: 48796, Start Num: 10

Candidate Starts for BlueNGold_90:

(Start: 10 @48158 has 5 MA's), (18, 48212), (36, 48287), (45, 48359), (60, 48503), (64, 48542), (69, 48584), (70, 48587), (73, 48614), (74, 48620), (79, 48683), (82, 48707), (85, 48725),

Gene: Boopy_91 Start: 48170, Stop: 48808, Start Num: 10

Candidate Starts for Boopy_91:

(Start: 10 @48170 has 5 MA's), (18, 48224), (36, 48299), (45, 48371), (60, 48515), (64, 48554), (69, 48596), (70, 48599), (73, 48626), (74, 48632), (79, 48695), (82, 48719), (85, 48737),

Gene: BruhMoment_26 Start: 18674, Stop: 19393, Start Num: 5

Candidate Starts for BruhMoment_26:

(2, 18626), (Start: 5 @18674 has 12 MA's), (6, 18686), (41, 18971), (43, 18980), (44, 18986), (46, 18998), (53, 19076), (62, 19148), (69, 19211), (71, 19220), (75, 19247), (76, 19259), (78, 19292), (86, 19361), (88, 19379), (89, 19382),

Gene: DogYard_30 Start: 19085, Stop: 19702, Start Num: 5

Candidate Starts for DogYard_30:

(Start: 5 @19085 has 12 MA's), (17, 19178), (39, 19274), (49, 19334), (54, 19382), (61, 19442), (62, 19451), (73, 19544), (77, 19586), (78, 19595), (87, 19667),

Gene: Forrestell_27 Start: 17896, Stop: 18513, Start Num: 5

Candidate Starts for Forrestell_27:

(Start: 5 @17896 has 12 MA's), (17, 17989), (39, 18085), (49, 18145), (54, 18193), (61, 18253), (62, 18262), (73, 18355), (77, 18397), (78, 18406), (87, 18478),

Gene: Forza_91 Start: 48086, Stop: 48724, Start Num: 10

Candidate Starts for Forza_91:

(Start: 10 @48086 has 5 MA's), (18, 48140), (36, 48215), (45, 48287), (60, 48431), (64, 48470), (69, 48512), (70, 48515), (73, 48542), (74, 48548), (79, 48611), (82, 48635), (85, 48653),

Gene: GMA2_19 Start: 18455, Stop: 19078, Start Num: 12

Candidate Starts for GMA2_19:

(12, 18455), (20, 18503), (42, 18626), (55, 18746), (56, 18752), (73, 18905), (74, 18911), (85, 19016),

Gene: GodonK_79 Start: 39897, Stop: 40520, Start Num: 11

Candidate Starts for GodonK_79:

(Start: 11 @39897 has 2 MA's), (20, 39948), (22, 39957), (57, 40203), (64, 40278), (68, 40308), (71, 40329),

Gene: Kubulix_30 Start: 19381, Stop: 19998, Start Num: 5

Candidate Starts for Kubulix_30:

(Start: 5 @19381 has 12 MA's), (17, 19474), (39, 19570), (49, 19630), (54, 19678), (61, 19738), (62, 19747), (73, 19840), (77, 19882), (78, 19891), (87, 19963),

Gene: Mareelih_89 Start: 47588, Stop: 48226, Start Num: 10

Candidate Starts for Mareelih_89:

(Start: 10 @47588 has 5 MA's), (18, 47642), (36, 47717), (45, 47789), (60, 47933), (64, 47972), (69, 48014), (70, 48017), (73, 48044), (74, 48050), (79, 48113), (82, 48137), (85, 48155),

Gene: MellowYellow_28 Start: 17923, Stop: 18549, Start Num: 5

Candidate Starts for MellowYellow_28:

(Start: 5 @17923 has 12 MA's), (17, 18016), (39, 18112), (49, 18172), (54, 18220), (61, 18280), (73, 18391), (77, 18433), (78, 18442), (87, 18514),

Gene: NyleyClemson_27 Start: 17868, Stop: 18494, Start Num: 5

Candidate Starts for NyleyClemson_27:

(Start: 5 @17868 has 12 MA's), (17, 17961), (39, 18057), (49, 18117), (54, 18165), (61, 18225), (73, 18336), (77, 18378), (78, 18387), (87, 18459),

Gene: Odyssey395_33 Start: 19210, Stop: 19827, Start Num: 5

Candidate Starts for Odyssey395_33:

(Start: 5 @19210 has 12 MA's), (17, 19303), (39, 19399), (49, 19459), (54, 19507), (61, 19567), (62, 19576), (73, 19669), (77, 19711), (78, 19720), (87, 19792),

Gene: Ollypop_27 Start: 18297, Stop: 18917, Start Num: 5

Candidate Starts for Ollypop_27:

(Start: 5 @18297 has 12 MA's), (17, 18390), (25, 18429), (26, 18432), (49, 18546), (62, 18663), (65, 18687), (77, 18801), (78, 18810), (85, 18864),

Gene: Phendrix_77 Start: 39765, Stop: 40388, Start Num: 11

Candidate Starts for Phendrix_77:

(Start: 11 @39765 has 2 MA's), (20, 39816), (22, 39825), (57, 40071), (64, 40146), (68, 40176), (71, 40197), (79, 40284),

Gene: Pointis_31 Start: 19214, Stop: 19831, Start Num: 5

Candidate Starts for Pointis_31:

(Start: 5 @19214 has 12 MA's), (17, 19307), (39, 19403), (49, 19463), (54, 19511), (61, 19571), (62, 19580), (73, 19673), (77, 19715), (78, 19724), (87, 19796),

Gene: Pureglobe5_33 Start: 19397, Stop: 20014, Start Num: 5

Candidate Starts for Pureglobe5_33:

(Start: 5 @19397 has 12 MA's), (17, 19490), (39, 19586), (49, 19646), (54, 19694), (61, 19754), (62, 19763), (73, 19856), (77, 19898), (78, 19907), (87, 19979),

Gene: Ranunculus_25 Start: 18319, Stop: 18939, Start Num: 5

Candidate Starts for Ranunculus_25:

(Start: 5 @18319 has 12 MA's), (13, 18397), (14, 18403), (25, 18457), (48, 18571), (49, 18574), (61, 18682), (62, 18691), (69, 18751), (71, 18760), (72, 18775), (73, 18781), (76, 18799), (78, 18832), (84, 18883), (88, 18919),

Gene: RazzB_26 Start: 17696, Stop: 18313, Start Num: 5

Candidate Starts for RazzB_26:

(Start: 5 @17696 has 12 MA's), (17, 17789), (39, 17885), (49, 17945), (54, 17993), (61, 18053), (62, 18062), (73, 18155), (77, 18197), (78, 18206), (87, 18278),

Gene: Rizwana_25 Start: 18364, Stop: 19080, Start Num: 5

Candidate Starts for Rizwana_25:

(Start: 5 @18364 has 12 MA's), (9, 18409), (25, 18502), (26, 18505), (28, 18544), (31, 18571), (34, 18589), (39, 18634), (41, 18658), (43, 18667), (47, 18697), (51, 18748), (57, 18781), (67, 18868), (76, 18949), (78, 18982), (83, 19024), (88, 19069),

Gene: RomansRevenge_22 Start: 17569, Stop: 18318, Start Num: 3

Candidate Starts for RomansRevenge_22:

(3, 17569), (8, 17614), (16, 17671), (26, 17719), (27, 17752), (33, 17800), (40, 17869), (45, 17902), (47, 17917), (49, 17929), (50, 17950), (76, 18175), (80, 18226), (81, 18229), (83, 18250),

Gene: SilentRX_26 Start: 19358, Stop: 20092, Start Num: 5

Candidate Starts for SilentRX_26:

(Start: 5 @19358 has 12 MA's), (Start: 11 @19424 has 2 MA's), (17, 19463), (21, 19481), (25, 19502), (26, 19505), (27, 19538), (29, 19550), (30, 19562), (35, 19607), (37, 19628), (38, 19637), (43, 19673), (45, 19688), (46, 19691), (49, 19715), (58, 19811), (59, 19820), (62, 19841), (66, 19868), (71, 19913), (72, 19928), (73, 19934), (79, 19997), (80, 20003),

Gene: Sixama_84 Start: 44955, Stop: 45587, Start Num: 10

Candidate Starts for Sixama_84:

(Start: 10 @44955 has 5 MA's), (18, 45006), (20, 45009), (36, 45081), (45, 45153), (49, 45180), (63, 45318), (73, 45408), (79, 45477), (85, 45519),

Gene: Tank_26 Start: 18308, Stop: 19024, Start Num: 5

Candidate Starts for Tank_26:

(Start: 5 @18308 has 12 MA's), (9, 18353), (15, 18395), (23, 18440), (26, 18449), (28, 18488), (31, 18515), (41, 18602), (49, 18653), (51, 18692), (62, 18779), (63, 18782), (67, 18812), (71, 18854), (76, 18893), (78, 18926), (85, 18980),

Gene: Wilde_26 Start: 18237, Stop: 18953, Start Num: 5

Candidate Starts for Wilde_26:

(Start: 5 @18237 has 12 MA's), (9, 18282), (15, 18324), (23, 18369), (26, 18378), (28, 18417), (31, 18444), (41, 18531), (49, 18582), (51, 18621), (57, 18654), (62, 18708), (63, 18711), (67, 18741), (71, 18783), (76, 18822), (78, 18855), (82, 18891), (85, 18909),