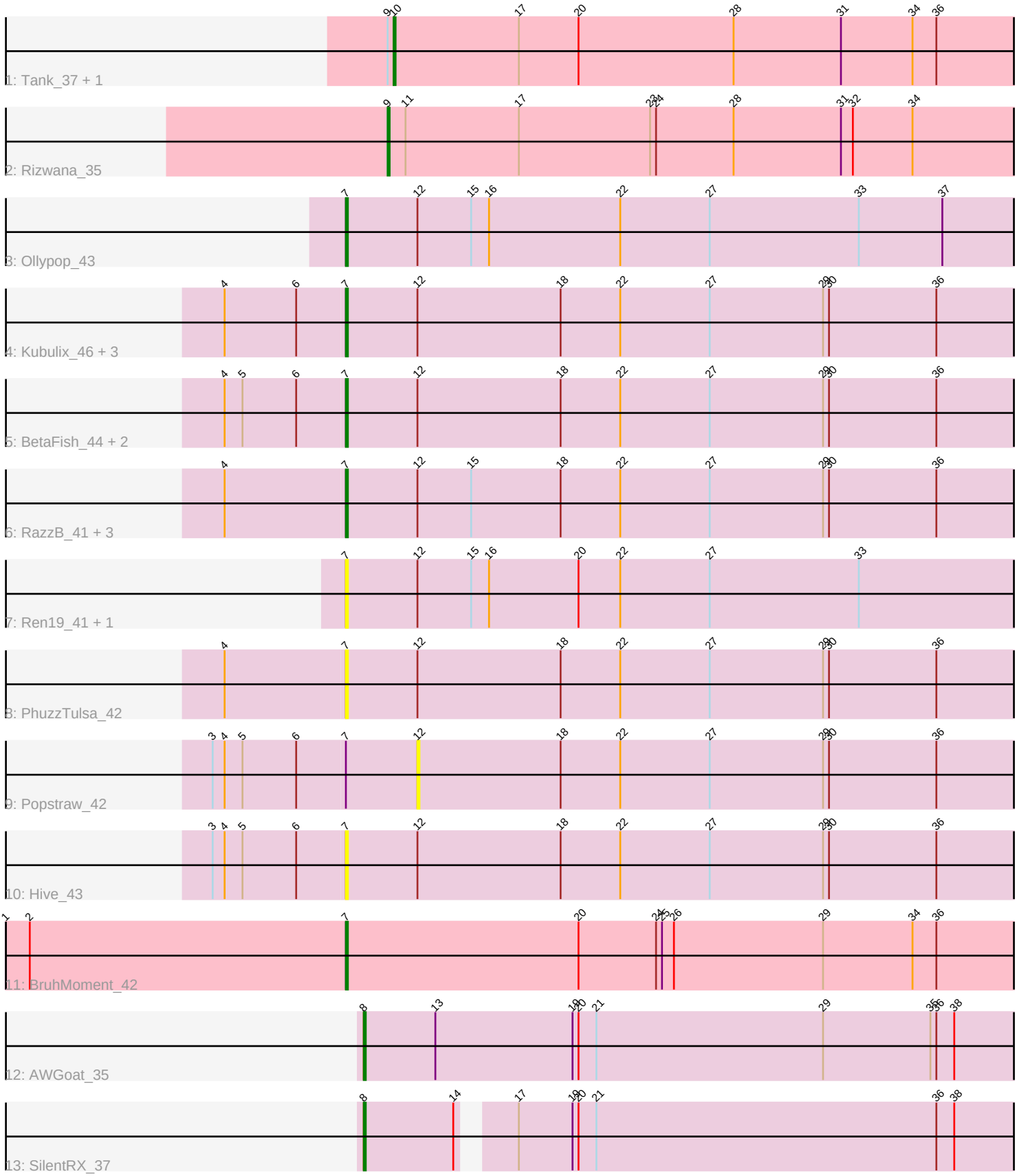
Pham 284164


1: Tank_37 + 1
2: Rizwana_35
3: Ollypop_43
4: Kubulix_46 + 3
5: BetaFish_44 + 2
6: RazzB_41 + 3
7: Ren19_41 + 1
8: PhuzzTulsa_42
9: Popstraw_42
10: Hive_43
11: BruhMoment_42
12: AWGoat_35
13: SilentRX_37

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 284164 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284164 has 23 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Tank_37, Wilde_37
• Track 2 : Rizwana_35
• Track 3 : Ollypop_43
• Track 4 : Kubulix_46, Beagle_46, Pointis_44, Pureglobe5_46
• Track 5 : BetaFish_44, Odyssey395_47, DogYard_45
• Track 6 : RazzB_41, NyleyClemson_41, MellowYellow_42, Forrestell_42
• Track 7 : Ren19_41, Nikan_43
• Track 8 : PhuzzTulsa_42
• Track 9 : Popstraw_42
• Track 10 : Hive_43
• Track 11 : BruhMoment_42
• Track 12 : AWGoat_35
• Track 13 : SilentRX_37

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

The start number called the most often in the published annotations is 7, it was called in 11 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beagle_46, BetaFish_44, BruhMoment_42, DogYard_45, Forrestell_42, Hive_43, Kubulix_46, MellowYellow_42, Nikan_43, NyleyClemson_41, Odyssey395_47, Ollypop_43, PhuzzTulsa_42, Pointis_44, Pureglobe5_46, RazzB_41, Ren19_41,

Genes that have the "Most Annotated" start but do not call it:
• Popstraw_42,

Genes that do not have the "Most Annotated" start:
• AWGoat_35, Rizwana_35, SilentRX_37, Tank_37, Wilde_37,

Summary by start number:

Start 7:
• Found in 18 of 23 (78.3%) of genes in pham

• Manual Annotations of this start: 11 of 16
• Called 94.4% of time when present
• Phage (with cluster) where this start called: Beagle_46 (AP2), BetaFish_44 (AP2), BruhMoment_42 (AP3), DogYard_45 (AP2), Forrestell_42 (AP2), Hive_43 (AP2), Kubulix_46 (AP2), MellowYellow_42 (AP2), Nikan_43 (AP2), NyleyClemson_41 (AP2), Odyssey395_47 (AP2), Ollypop_43 (AP2), PhuzzTulsa_42 (AP2), Pointis_44 (AP2), Pureglobe5_46 (AP2), RazzB_41 (AP2), Ren19_41 (AP2),

Start 8:
• Found in 2 of 23 (8.7%) of genes in pham
• Manual Annotations of this start: 2 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AWGoat_35 (AP4), SilentRX_37 (AP4),

Start 9:
• Found in 3 of 23 (13.0%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Rizwana_35 (AP1),

Start 10:
• Found in 2 of 23 (8.7%) of genes in pham
• Manual Annotations of this start: 2 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tank_37 (AP1), Wilde_37 (AP1),

Start 12:
• Found in 17 of 23 (73.9%) of genes in pham
• No Manual Annotations of this start.
• Called 5.9% of time when present
• Phage (with cluster) where this start called: Popstraw_42 (AP2),

Summary by clusters:

There are 4 clusters represented in this pham: AP2, AP3, AP1, AP4,

Info for manual annotations of cluster AP1:
•Start number 9 was manually annotated 1 time for cluster AP1.
•Start number 10 was manually annotated 2 times for cluster AP1.

Info for manual annotations of cluster AP2:
•Start number 7 was manually annotated 10 times for cluster AP2.

Info for manual annotations of cluster AP3:
•Start number 7 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:
•Start number 8 was manually annotated 2 times for cluster AP4.

Gene Information:

Gene: AWGoat_35 Start: 33444, Stop: 33779, Start Num: 8
Candidate Starts for AWGoat_35:
(Start: 8 @33444 has 2 MA's), (13, 33480), (19, 33549), (20, 33552), (21, 33561), (29, 33675), (35, 33729), (36, 33732), (38, 33741),

Gene: Beagle_46 Start: 34747, Stop: 35091, Start Num: 7
Candidate Starts for Beagle_46:
(4, 34687), (6, 34723), (Start: 7 @34747 has 11 MA's), (12, 34783), (18, 34855), (22, 34885), (27, 34930), (29, 34987), (30, 34990), (36, 35044),

Gene: BetaFish_44 Start: 34941, Stop: 35285, Start Num: 7
Candidate Starts for BetaFish_44:
(4, 34881), (5, 34890), (6, 34917), (Start: 7 @34941 has 11 MA's), (12, 34977), (18, 35049), (22, 35079), (27, 35124), (29, 35181), (30, 35184), (36, 35238),

Gene: BruhMoment_42 Start: 36111, Stop: 36455, Start Num: 7
Candidate Starts for BruhMoment_42:
(1, 35940), (2, 35952), (Start: 7 @36111 has 11 MA's), (20, 36228), (24, 36267), (25, 36270), (26, 36276), (29, 36351), (34, 36396), (36, 36408),

Gene: DogYard_45 Start: 34641, Stop: 34985, Start Num: 7
Candidate Starts for DogYard_45:
(4, 34581), (5, 34590), (6, 34617), (Start: 7 @34641 has 11 MA's), (12, 34677), (18, 34749), (22, 34779), (27, 34824), (29, 34881), (30, 34884), (36, 34938),

Gene: Forrestell_42 Start: 33116, Stop: 33460, Start Num: 7
Candidate Starts for Forrestell_42:
(4, 33056), (Start: 7 @33116 has 11 MA's), (12, 33152), (15, 33179), (18, 33224), (22, 33254), (27, 33299), (29, 33356), (30, 33359), (36, 33413),

Gene: Hive_43 Start: 34822, Stop: 35166, Start Num: 7
Candidate Starts for Hive_43:
(3, 34756), (4, 34762), (5, 34771), (6, 34798), (Start: 7 @34822 has 11 MA's), (12, 34858), (18, 34930), (22, 34960), (27, 35005), (29, 35062), (30, 35065), (36, 35119),

Gene: Kubulix_46 Start: 34589, Stop: 34933, Start Num: 7
Candidate Starts for Kubulix_46:
(4, 34529), (6, 34565), (Start: 7 @34589 has 11 MA's), (12, 34625), (18, 34697), (22, 34727), (27, 34772), (29, 34829), (30, 34832), (36, 34886),

Gene: MellowYellow_42 Start: 33482, Stop: 33826, Start Num: 7
Candidate Starts for MellowYellow_42:
(4, 33422), (Start: 7 @33482 has 11 MA's), (12, 33518), (15, 33545), (18, 33590), (22, 33620), (27, 33665), (29, 33722), (30, 33725), (36, 33779),

Gene: Nikan_43 Start: 33765, Stop: 34109, Start Num: 7
Candidate Starts for Nikan_43:
(Start: 7 @33765 has 11 MA's), (12, 33801), (15, 33828), (16, 33837), (20, 33882), (22, 33903), (27, 33948), (33, 34023),

Gene: NyleyClemson_41 Start: 33097, Stop: 33441, Start Num: 7
Candidate Starts for NyleyClemson_41:

(4, 33037), (Start: 7 @33097 has 11 MA's), (12, 33133), (15, 33160), (18, 33205), (22, 33235), (27, 33280), (29, 33337), (30, 33340), (36, 33394),

Gene: Odyssey395_47 Start: 34766, Stop: 35110, Start Num: 7
Candidate Starts for Odyssey395_47:
(4, 34706), (5, 34715), (6, 34742), (Start: 7 @34766 has 11 MA's), (12, 34802), (18, 34874), (22, 34904), (27, 34949), (29, 35006), (30, 35009), (36, 35063),

Gene: Ollypop_43 Start: 34857, Stop: 35201, Start Num: 7
Candidate Starts for Ollypop_43:
(Start: 7 @34857 has 11 MA's), (12, 34893), (15, 34920), (16, 34929), (22, 34995), (27, 35040), (33, 35115), (37, 35157),

Gene: PhuzzTulsa_42 Start: 34726, Stop: 35070, Start Num: 7
Candidate Starts for PhuzzTulsa_42:
(4, 34666), (Start: 7 @34726 has 11 MA's), (12, 34762), (18, 34834), (22, 34864), (27, 34909), (29, 34966), (30, 34969), (36, 35023),

Gene: Pointis_44 Start: 34764, Stop: 35108, Start Num: 7
Candidate Starts for Pointis_44:
(4, 34704), (6, 34740), (Start: 7 @34764 has 11 MA's), (12, 34800), (18, 34872), (22, 34902), (27, 34947), (29, 35004), (30, 35007), (36, 35061),

Gene: Popstraw_42 Start: 34586, Stop: 34894, Start Num: 12
Candidate Starts for Popstraw_42:
(3, 34484), (4, 34490), (5, 34499), (6, 34526), (Start: 7 @34550 has 11 MA's), (12, 34586), (18, 34658), (22, 34688), (27, 34733), (29, 34790), (30, 34793), (36, 34847),

Gene: Pureglobe5_46 Start: 34947, Stop: 35291, Start Num: 7
Candidate Starts for Pureglobe5_46:
(4, 34887), (6, 34923), (Start: 7 @34947 has 11 MA's), (12, 34983), (18, 35055), (22, 35085), (27, 35130), (29, 35187), (30, 35190), (36, 35244),

Gene: RazzB_41 Start: 33228, Stop: 33572, Start Num: 7
Candidate Starts for RazzB_41:
(4, 33168), (Start: 7 @33228 has 11 MA's), (12, 33264), (15, 33291), (18, 33336), (22, 33366), (27, 33411), (29, 33468), (30, 33471), (36, 33525),

Gene: Ren19_41 Start: 33765, Stop: 34109, Start Num: 7
Candidate Starts for Ren19_41:
(Start: 7 @33765 has 11 MA's), (12, 33801), (15, 33828), (16, 33837), (20, 33882), (22, 33903), (27, 33948), (33, 34023),

Gene: Rizwana_35 Start: 34988, Stop: 35311, Start Num: 9
Candidate Starts for Rizwana_35:
(Start: 9 @34988 has 1 MA's), (11, 34997), (17, 35054), (23, 35120), (24, 35123), (28, 35162), (31, 35216), (32, 35222), (34, 35252),

Gene: SilentRX_37 Start: 34506, Stop: 34829, Start Num: 8
Candidate Starts for SilentRX_37:
(Start: 8 @34506 has 2 MA's), (14, 34551), (17, 34572), (19, 34599), (20, 34602), (21, 34611), (36, 34782), (38, 34791),

Gene: Tank_37 Start: 35024, Stop: 35344, Start Num: 10
Candidate Starts for Tank_37:
(Start: 9 @35021 has 1 MA's), (Start: 10 @35024 has 2 MA's), (17, 35087), (20, 35117), (28, 35195), (31, 35249), (34, 35285), (36, 35297),

Gene: Wilde_37 Start: 34866, Stop: 35186, Start Num: 10
Candidate Starts for Wilde_37:
(Start: 9 @34863 has 1 MA's), (Start: 10 @34866 has 2 MA's), (17, 34929), (20, 34959), (28, 35037), (31, 35091), (34, 35127), (36, 35139),