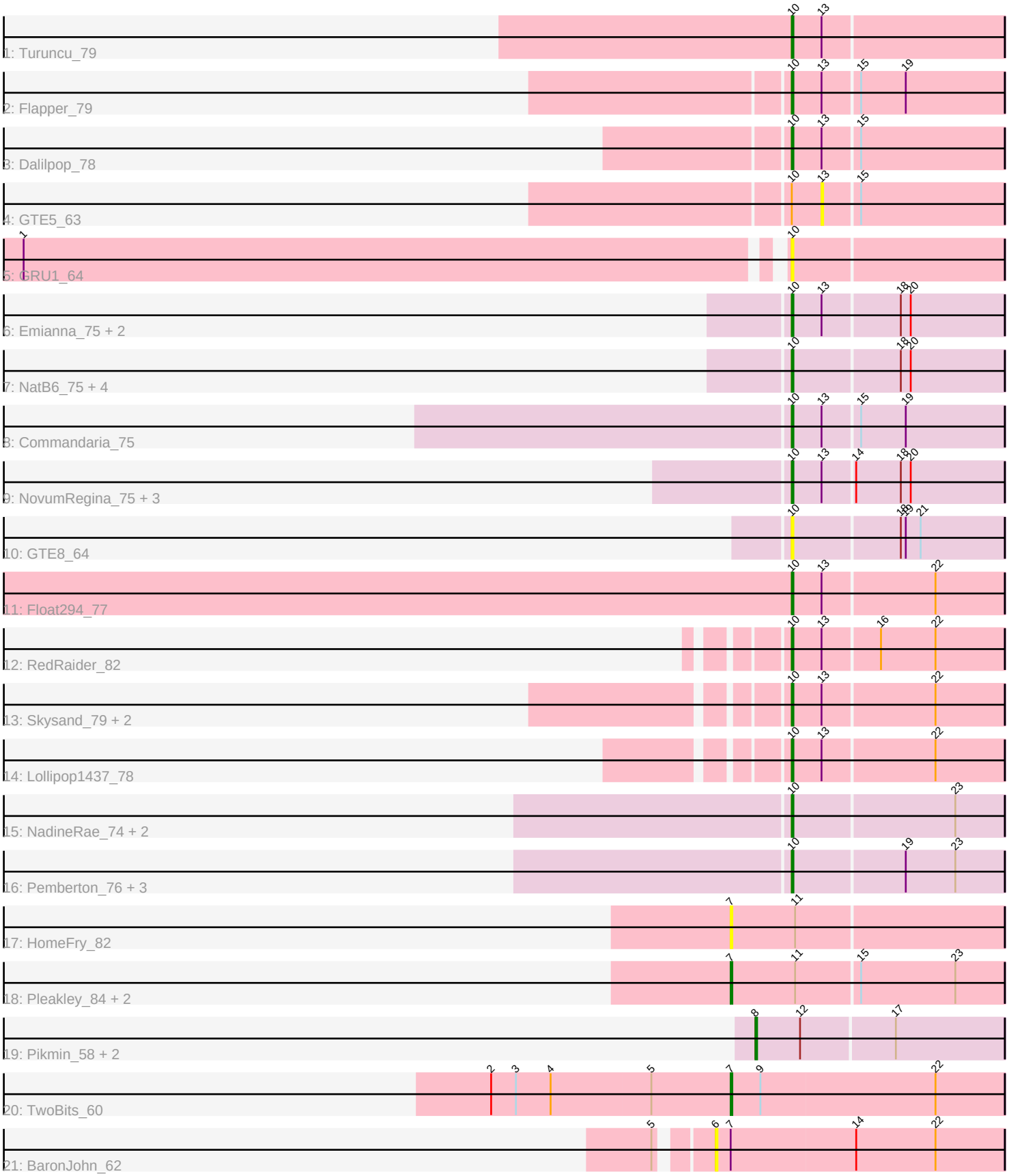
Pham 296717


1: Turuncu_79
2: Flapper_79
3: Dalilpop_78
4: GTE5_63
5: GRU1_64
6: Emianna_75 + 2
7: NatB6_75 + 4
8: Commandaria_75
9: NovumRegina_75 + 3
10: GTE8_64
11: Float294_77
12: RedRaider_82
13: Skysand_79 + 2
14: Lollipop1437_78
15: NadineRae_74 + 2
16: Pemberton_76 + 3
17: HomeFry_82
18: Pleakley_84 + 2
19: Pikmin_58 + 2
20: TwoBits_60
21: BaronJohn_62

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 296717 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296717 has 41 members, 7 are drafts.

Phages represented in each track:
- Track 1 : Turuncu_79
- Track 2 : Flapper_79
- Track 3 : Dalilpop_78
- Track 4 : GTE5_63
- Track 5 : GRU1_64
- Track 6 : Emianna_75, Kurt_75, Arti_74
- Track 7 : NatB6_75, KidneyBean_75, Jifall16_74, Phomeo_74, Foxboro_75
- Track 8 : Commandaria_75
- Track 9 : NovumRegina_75, GrootJr_77, Tracker_75, Wheezy_75
- Track 10 : GTE8_64
- Track 11 : Float294_77
- Track 12 : RedRaider_82
- Track 13 : Skysand_79, Patio_77, Ennea_82
- Track 14 : Lollipop1437_78
- Track 15 : NadineRae_74, WhoseManz_74, Marietta_75
- Track 16 : Pemberton_76, BiPauneto_77, Sukkupi_74, Yndexa_74
- Track 17 : HomeFry_82
- Track 18 : Pleakley_84, Scuba_85, Fury_84
- Track 19 : Pikmin_58, Casey_58, Pajaza_58
- Track 20 : TwoBits_60
- Track 21 : BaronJohn_62

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

The start number called the most often in the published annotations is 10, it was called in 28 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Arti_74, BiPauneto_77, Commandaria_75, Dalilpop_78, Emianna_75, Ennea_82, Flapper_79, Float294_77, Foxboro_75, GRU1_64, GTE8_64, GrootJr_77, Jifall16_74, KidneyBean_75, Kurt_75, Lollipop1437_78, Marietta_75, NadineRae_74, NatB6_75, NovumRegina_75, Patio_77, Pemberton_76, Phomeo_74, RedRaider_82, Skysand_79, Sukkupi_74, Tracker_75, Turuncu_79, Wheezy_75, WhoseManz_74, Yndexa_74,

Genes that have the "Most Annotated" start but do not call it:
• GTE5_63,

Genes that do not have the "Most Annotated" start:
• BaronJohn_62, Casey_58, Fury_84, HomeFry_82, Pajaza_58, Pikmin_58, Pleakley_84, Scuba_85, TwoBits_60,

Summary by start number:

Start 6:
• Found in 1 of 41 (2.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BaronJohn_62 (EA5),

Start 7:
• Found in 6 of 41 (14.6%) of genes in pham
• Manual Annotations of this start: 3 of 34
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Fury_84 (CR5), HomeFry_82 (CR5), Pleakley_84 (CR5), Scuba_85 (CR5), TwoBits_60 (EA5),

Start 8:
• Found in 3 of 41 (7.3%) of genes in pham
• Manual Annotations of this start: 3 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Casey_58 (EA3), Pajaza_58 (EA3), Pikmin_58 (EA3),

Start 10:
• Found in 32 of 41 (78.0%) of genes in pham
• Manual Annotations of this start: 28 of 34
• Called 96.9% of time when present
• Phage (with cluster) where this start called: Arti_74 (CR2), BiPauneto_77 (CR4), Commandaria_75 (CR2), Dalilpop_78 (CR1), Emianna_75 (CR2), Ennea_82 (CR3), Flapper_79 (CR1), Float294_77 (CR3), Foxboro_75 (CR2), GRU1_64 (CR1), GTE8_64 (CR2), GrootJr_77 (CR2), Jifall16_74 (CR2), KidneyBean_75 (CR2), Kurt_75 (CR2), Lollipop1437_78 (CR3), Marietta_75 (CR4), NadineRae_74 (CR4), NatB6_75 (CR2), NovumRegina_75 (CR2), Patio_77 (CR3), Pemberton_76 (CR4), Phomeo_74 (CR2), RedRaider_82 (CR3), Skysand_79 (CR3), Sukkupi_74 (CR4), Tracker_75 (CR2), Turuncu_79 (CR1), Wheezy_75 (CR2), WhoseManz_74 (CR4), Yndexa_74 (CR4),

Start 13:
• Found in 18 of 41 (43.9%) of genes in pham
• No Manual Annotations of this start.
• Called 5.6% of time when present
• Phage (with cluster) where this start called: GTE5_63 (CR1),

Summary by clusters:

There are 7 clusters represented in this pham: CR2, CR3, CR1, CR4, CR5, EA3, EA5,

Info for manual annotations of cluster CR1:
•Start number 10 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 10 was manually annotated 13 times for cluster CR2.

Info for manual annotations of cluster CR3:
•Start number 10 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:
•Start number 10 was manually annotated 6 times for cluster CR4.

Info for manual annotations of cluster CR5:
•Start number 7 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster EA3:
•Start number 8 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA5:
•Start number 7 was manually annotated 1 time for cluster EA5.

Gene Information:

Gene: Arti_74 Start: 56369, Stop: 56244, Start Num: 10
Candidate Starts for Arti_74:
(Start: 10 @56369 has 28 MA's), (13, 56351), (18, 56306), (20, 56300),

Gene: BaronJohn_62 Start: 39645, Stop: 39818, Start Num: 6
Candidate Starts for BaronJohn_62:
(5, 39618), (6, 39645), (Start: 7 @39654 has 3 MA's), (14, 39729), (22, 39777),

Gene: BiPauneto_77 Start: 55729, Stop: 55604, Start Num: 10
Candidate Starts for BiPauneto_77:
(Start: 10 @55729 has 28 MA's), (19, 55663), (23, 55633),

Gene: Casey_58 Start: 38627, Stop: 38773, Start Num: 8
Candidate Starts for Casey_58:
(Start: 8 @38627 has 3 MA's), (12, 38654), (17, 38708),

Gene: Commandaria_75 Start: 57325, Stop: 57200, Start Num: 10
Candidate Starts for Commandaria_75:
(Start: 10 @57325 has 28 MA's), (13, 57307), (15, 57286), (19, 57259),

Gene: Dalilpop_78 Start: 58244, Stop: 58119, Start Num: 10
Candidate Starts for Dalilpop_78:
(Start: 10 @58244 has 28 MA's), (13, 58226), (15, 58205),

Gene: Emianna_75 Start: 57580, Stop: 57455, Start Num: 10
Candidate Starts for Emianna_75:
(Start: 10 @57580 has 28 MA's), (13, 57562), (18, 57517), (20, 57511),

Gene: Ennea_82 Start: 58711, Stop: 58586, Start Num: 10
Candidate Starts for Ennea_82:
(Start: 10 @58711 has 28 MA's), (13, 58693), (22, 58627),

Gene: Flapper_79 Start: 57983, Stop: 57858, Start Num: 10
Candidate Starts for Flapper_79:
(Start: 10 @57983 has 28 MA's), (13, 57965), (15, 57944), (19, 57917),

Gene: Float294_77 Start: 58617, Stop: 58492, Start Num: 10
Candidate Starts for Float294_77:
(Start: 10 @58617 has 28 MA's), (13, 58599), (22, 58533),

Gene: Foxboro_75 Start: 57792, Stop: 57667, Start Num: 10
Candidate Starts for Foxboro_75:
(Start: 10 @57792 has 28 MA's), (18, 57729), (20, 57723),

Gene: Fury_84 Start: 56522, Stop: 56361, Start Num: 7
Candidate Starts for Fury_84:
(Start: 7 @56522 has 3 MA's), (11, 56483), (15, 56447), (23, 56390),

Gene: GRU1_64 Start: 49828, Stop: 49703, Start Num: 10
Candidate Starts for GRU1_64:
(1, 50275), (Start: 10 @49828 has 28 MA's),

Gene: GTE5_63 Start: 50458, Stop: 50351, Start Num: 13
Candidate Starts for GTE5_63:
(Start: 10 @50476 has 28 MA's), (13, 50458), (15, 50437),

Gene: GTE8_64 Start: 50743, Stop: 50618, Start Num: 10
Candidate Starts for GTE8_64:
(Start: 10 @50743 has 28 MA's), (18, 50680), (19, 50677), (21, 50668),

Gene: GrootJr_77 Start: 56973, Stop: 56848, Start Num: 10
Candidate Starts for GrootJr_77:
(Start: 10 @56973 has 28 MA's), (13, 56955), (14, 56937), (18, 56910), (20, 56904),

Gene: HomeFry_82 Start: 55577, Stop: 55416, Start Num: 7
Candidate Starts for HomeFry_82:
(Start: 7 @55577 has 3 MA's), (11, 55538),

Gene: Jifall16_74 Start: 57285, Stop: 57160, Start Num: 10
Candidate Starts for Jifall16_74:
(Start: 10 @57285 has 28 MA's), (18, 57222), (20, 57216),

Gene: KidneyBean_75 Start: 57409, Stop: 57284, Start Num: 10
Candidate Starts for KidneyBean_75:
(Start: 10 @57409 has 28 MA's), (18, 57346), (20, 57340),

Gene: Kurt_75 Start: 57595, Stop: 57470, Start Num: 10
Candidate Starts for Kurt_75:
(Start: 10 @57595 has 28 MA's), (13, 57577), (18, 57532), (20, 57526),

Gene: Lollipop1437_78 Start: 58391, Stop: 58266, Start Num: 10
Candidate Starts for Lollipop1437_78:
(Start: 10 @58391 has 28 MA's), (13, 58373), (22, 58307),

Gene: Marietta_75 Start: 53624, Stop: 53499, Start Num: 10
Candidate Starts for Marietta_75:
(Start: 10 @53624 has 28 MA's), (23, 53528),

Gene: NadineRae_74 Start: 53232, Stop: 53107, Start Num: 10
Candidate Starts for NadineRae_74:
(Start: 10 @53232 has 28 MA's), (23, 53136),

Gene: NatB6_75 Start: 56685, Stop: 56560, Start Num: 10
Candidate Starts for NatB6_75:
(Start: 10 @56685 has 28 MA's), (18, 56622), (20, 56616),

Gene: NovumRegina_75 Start: 56972, Stop: 56847, Start Num: 10
Candidate Starts for NovumRegina_75:
(Start: 10 @56972 has 28 MA's), (13, 56954), (14, 56936), (18, 56909), (20, 56903),

Gene: Pajaza_58 Start: 38627, Stop: 38773, Start Num: 8
Candidate Starts for Pajaza_58:
(Start: 8 @38627 has 3 MA's), (12, 38654), (17, 38708),

Gene: Patio_77 Start: 57623, Stop: 57498, Start Num: 10
Candidate Starts for Patio_77:
(Start: 10 @57623 has 28 MA's), (13, 57605), (22, 57539),

Gene: Pemberton_76 Start: 53804, Stop: 53679, Start Num: 10
Candidate Starts for Pemberton_76:
(Start: 10 @53804 has 28 MA's), (19, 53738), (23, 53708),

Gene: Phomeo_74 Start: 57281, Stop: 57156, Start Num: 10
Candidate Starts for Phomeo_74:
(Start: 10 @57281 has 28 MA's), (18, 57218), (20, 57212),

Gene: Pikmin_58 Start: 38627, Stop: 38773, Start Num: 8
Candidate Starts for Pikmin_58:
(Start: 8 @38627 has 3 MA's), (12, 38654), (17, 38708),

Gene: Pleakley_84 Start: 56523, Stop: 56362, Start Num: 7
Candidate Starts for Pleakley_84:
(Start: 7 @56523 has 3 MA's), (11, 56484), (15, 56448), (23, 56391),

Gene: RedRaider_82 Start: 59750, Stop: 59625, Start Num: 10
Candidate Starts for RedRaider_82:
(Start: 10 @59750 has 28 MA's), (13, 59732), (16, 59699), (22, 59666),

Gene: Scuba_85 Start: 56595, Stop: 56434, Start Num: 7
Candidate Starts for Scuba_85:
(Start: 7 @56595 has 3 MA's), (11, 56556), (15, 56520), (23, 56463),

Gene: Skysand_79 Start: 58286, Stop: 58161, Start Num: 10

Candidate Starts for Skysand_79:
(Start: 10 @58286 has 28 MA's), (13, 58268), (22, 58202),

Gene: Sukkupi_74 Start: 55276, Stop: 55151, Start Num: 10
Candidate Starts for Sukkupi_74:
(Start: 10 @55276 has 28 MA's), (19, 55210), (23, 55180),

Gene: Tracker_75 Start: 56428, Stop: 56303, Start Num: 10
Candidate Starts for Tracker_75:
(Start: 10 @56428 has 28 MA's), (13, 56410), (14, 56392), (18, 56365), (20, 56359),

Gene: Turuncu_79 Start: 57805, Stop: 57680, Start Num: 10
Candidate Starts for Turuncu_79:
(Start: 10 @57805 has 28 MA's), (13, 57787),

Gene: TwoBits_60 Start: 39449, Stop: 39613, Start Num: 7
Candidate Starts for TwoBits_60:
(2, 39305), (3, 39320), (4, 39341), (5, 39401), (Start: 7 @39449 has 3 MA's), (9, 39467), (22, 39572),

Gene: Wheezy_75 Start: 56643, Stop: 56518, Start Num: 10
Candidate Starts for Wheezy_75:
(Start: 10 @56643 has 28 MA's), (13, 56625), (14, 56607), (18, 56580), (20, 56574),

Gene: WhoseManz_74 Start: 53291, Stop: 53166, Start Num: 10
Candidate Starts for WhoseManz_74:
(Start: 10 @53291 has 28 MA's), (23, 53195),

Gene: Yndexa_74 Start: 55276, Stop: 55151, Start Num: 10
Candidate Starts for Yndexa_74:
(Start: 10 @55276 has 28 MA's), (19, 55210), (23, 55180),