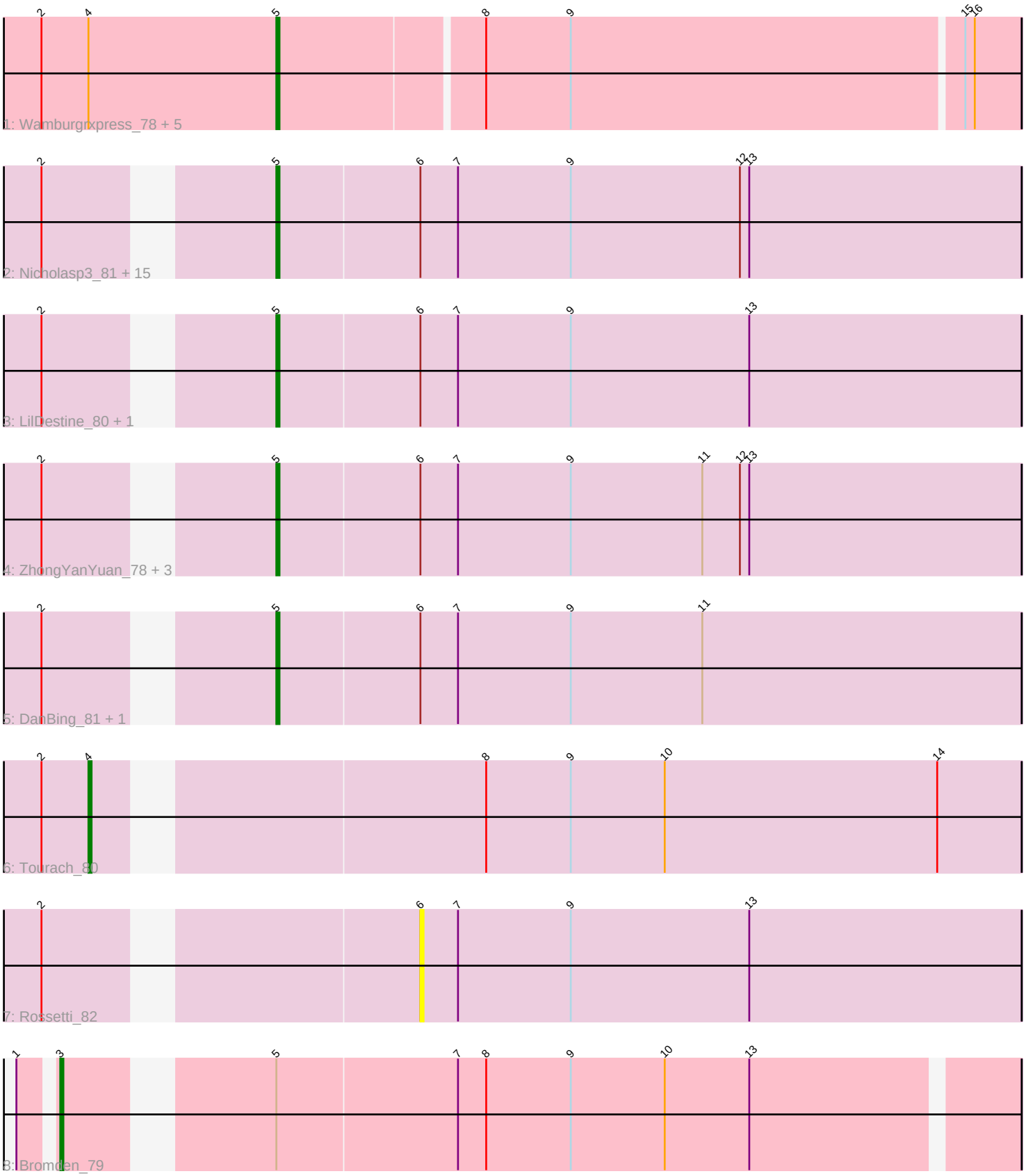
# Pham 291375


2
4
5
8
9
15
16
1: Wamburgrxpress_78 + 5
2
5
6
7
9
12
13
2: Nicholasp3_81 + 15
2
5
6
7
9
13
3: LilDestine_80 + 1
2
5
6
7
9
11
12
13
4: ZhongYanYuan_78 + 3
2
5
6
7
9
11
5: DanBing_81 + 1
2
4
8
9
10
14
6: Tourach_80
2
6
7
9
13
7: Rossetti_82
1
3
5
7
8
9
10
13
8: Bromden_79

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 291375 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291375 has 33 members, 10 are drafts.

Phages represented in each track:
• Track 1 : Wamburgrxpress_78, Rose5_78, CicholasNage_75, UPIE_77, LeBron_77, AvadaKedavra_78
• Track 2 : Nicholasp3_81, Crossroads_81, Lynnae_83, SoJulia_83, Sarshaun_82, BobsGarage_81, Loadrie_80, Netyap_82, BigCheese_81, Gabriela_80, Underpass_72, DrSeegs_81, Soap141_81, GuuelaD_79, OverPar_83, Lewan_82
• Track 3 : LilDestine_80, Vetrix_80
• Track 4 : ZhongYanYuan_78, DHan_84, Hafay_82, Wigglewiggle_80
• Track 5 : DanBing_81, Baoshan_79
• Track 6 : Tourach_80
• Track 7 : Rossetti_82
• Track 8 : Bromden_79

***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 21 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AvadaKedavra_78, Baoshan_79, BigCheese_81, BobsGarage_81, CicholasNage_75, Crossroads_81, DHan_84, DanBing_81, DrSeegs_81, Gabriela_80, GuuelaD_79, Hafay_82, LeBron_77, Lewan_82, LilDestine_80, Loadrie_80, Lynnae_83, Netyap_82, Nicholasp3_81, OverPar_83, Rose5_78, Sarshaun_82, SoJulia_83, Soap141_81, UPIE_77, Underpass_72, Vetrix_80, Wamburgrxpress_78, Wigglewiggle_80, ZhongYanYuan_78,

Genes that have the "Most Annotated" start but do not call it:
• Bromden_79,

Genes that do not have the "Most Annotated" start:
• Rossetti_82, Tourach_80,

**Summary by start number:**

Start 3:

• Found in 1 of 33 ( 3.0% ) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bromden_79 (L4),

Start 4:
• Found in 7 of 33 ( 21.2% ) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Tourach_80 (L2),

Start 5:
• Found in 31 of 33 ( 93.9% ) of genes in pham
• Manual Annotations of this start: 21 of 23
• Called 96.8% of time when present
• Phage (with cluster) where this start called: AvadaKedavra_78 (L1), Baoshan_79 (L2), BigCheese_81 (L2), BobsGarage_81 (L2), CicholasNage_75 (L1), Crossroads_81 (L2), DHan_84 (L2), DanBing_81 (L2), DrSeegs_81 (L2), Gabriela_80 (L2), GuuelaD_79 (L2), Hafay_82 (L2), LeBron_77 (L1), Lewan_82 (L2), LilDestine_80 (L2), Loadrie_80 (L2), Lynnae_83 (L2), Netyap_82 (L2), Nicholasp3_81 (L2), OverPar_83 (L2), Rose5_78 (L1), Sarshaun_82 (L2), SoJulia_83 (L2), Soap141_81 (L2), UPIE_77 (L1), Underpass_72 (L2), Vetrix_80 (L2), Wamburgrxpress_78 (L1), Wigglewiggle_80 (L2), ZhongYanYuan_78 (L2),

Start 6:
• Found in 25 of 33 ( 75.8% ) of genes in pham
• No Manual Annotations of this start.
• Called 4.0% of time when present
• Phage (with cluster) where this start called: Rossetti_82 (L2),

**Summary by clusters:**

There are 3 clusters represented in this pham: L4, L2, L1,

Info for manual annotations of cluster L1:
•Start number 5 was manually annotated 6 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 4 was manually annotated 1 time for cluster L2.
•Start number 5 was manually annotated 15 times for cluster L2.

Info for manual annotations of cluster L4:
•Start number 3 was manually annotated 1 time for cluster L4.

***Gene Information:***

Gene: AvadaKedavra_78 Start: 52163, Stop: 52393, Start Num: 5
Candidate Starts for AvadaKedavra_78:
(2, 52088), (Start: 4 @52103 has 1 MA's), (Start: 5 @52163 has 21 MA's), (8, 52226), (9, 52253), (15, 52376), (16, 52379),

Gene: Baoshan_79 Start: 53848, Stop: 54084, Start Num: 5
Candidate Starts for Baoshan_79:
(2, 53788), (Start: 5 @53848 has 21 MA's), (6, 53893), (7, 53905), (9, 53941), (11, 53983),

Gene: BigCheese_81 Start: 53978, Stop: 54214, Start Num: 5
Candidate Starts for BigCheese_81:
(2, 53918), (Start: 5 @53978 has 21 MA's), (6, 54023), (7, 54035), (9, 54071), (12, 54125), (13, 54128),

Gene: BobsGarage_81 Start: 53978, Stop: 54214, Start Num: 5
Candidate Starts for BobsGarage_81:
(2, 53918), (Start: 5 @53978 has 21 MA's), (6, 54023), (7, 54035), (9, 54071), (12, 54125), (13, 54128),

Gene: Bromden_79 Start: 53366, Stop: 53650, Start Num: 3
Candidate Starts for Bromden_79:
(1, 53357), (Start: 3 @53366 has 1 MA's), (Start: 5 @53420 has 21 MA's), (7, 53477), (8, 53486), (9, 53513), (10, 53543), (13, 53570),

Gene: CicholasNage_75 Start: 51748, Stop: 51978, Start Num: 5
Candidate Starts for CicholasNage_75:
(2, 51673), (Start: 4 @51688 has 1 MA's), (Start: 5 @51748 has 21 MA's), (8, 51811), (9, 51838), (15, 51961), (16, 51964),

Gene: Crossroads_81 Start: 54053, Stop: 54289, Start Num: 5
Candidate Starts for Crossroads_81:
(2, 53993), (Start: 5 @54053 has 21 MA's), (6, 54098), (7, 54110), (9, 54146), (12, 54200), (13, 54203),

Gene: DHan_84 Start: 54131, Stop: 54367, Start Num: 5
Candidate Starts for DHan_84:
(2, 54071), (Start: 5 @54131 has 21 MA's), (6, 54176), (7, 54188), (9, 54224), (11, 54266), (12, 54278), (13, 54281),

Gene: DanBing_81 Start: 53783, Stop: 54019, Start Num: 5
Candidate Starts for DanBing_81:
(2, 53723), (Start: 5 @53783 has 21 MA's), (6, 53828), (7, 53840), (9, 53876), (11, 53918),

Gene: DrSeegs_81 Start: 53978, Stop: 54214, Start Num: 5
Candidate Starts for DrSeegs_81:
(2, 53918), (Start: 5 @53978 has 21 MA's), (6, 54023), (7, 54035), (9, 54071), (12, 54125), (13, 54128),

Gene: Gabriela_80 Start: 53324, Stop: 53560, Start Num: 5
Candidate Starts for Gabriela_80:
(2, 53264), (Start: 5 @53324 has 21 MA's), (6, 53369), (7, 53381), (9, 53417), (12, 53471), (13, 53474),

Gene: GuuelaD_79 Start: 54093, Stop: 54329, Start Num: 5
Candidate Starts for GuuelaD_79:
(2, 54033), (Start: 5 @54093 has 21 MA's), (6, 54138), (7, 54150), (9, 54186), (12, 54240), (13, 54243),

Gene: Hafay_82 Start: 53908, Stop: 54144, Start Num: 5
Candidate Starts for Hafay_82:
(2, 53848), (Start: 5 @53908 has 21 MA's), (6, 53953), (7, 53965), (9, 54001), (11, 54043), (12, 54055), (13, 54058),

Gene: LeBron_77 Start: 51321, Stop: 51551, Start Num: 5

Candidate Starts for LeBron_77:
(2, 51246), (Start: 4 @51261 has 1 MA's), (Start: 5 @51321 has 21 MA's), (8, 51384), (9, 51411), (15, 51534), (16, 51537),

Gene: Lewan_82 Start: 54036, Stop: 54272, Start Num: 5
Candidate Starts for Lewan_82:
(2, 53976), (Start: 5 @54036 has 21 MA's), (6, 54081), (7, 54093), (9, 54129), (12, 54183), (13, 54186),

Gene: LilDestine_80 Start: 53888, Stop: 54124, Start Num: 5
Candidate Starts for LilDestine_80:
(2, 53828), (Start: 5 @53888 has 21 MA's), (6, 53933), (7, 53945), (9, 53981), (13, 54038),

Gene: Loadrie_80 Start: 54063, Stop: 54299, Start Num: 5
Candidate Starts for Loadrie_80:
(2, 54003), (Start: 5 @54063 has 21 MA's), (6, 54108), (7, 54120), (9, 54156), (12, 54210), (13, 54213),

Gene: Lynnae_83 Start: 53996, Stop: 54232, Start Num: 5
Candidate Starts for Lynnae_83:
(2, 53936), (Start: 5 @53996 has 21 MA's), (6, 54041), (7, 54053), (9, 54089), (12, 54143), (13, 54146),

Gene: Netyap_82 Start: 53979, Stop: 54215, Start Num: 5
Candidate Starts for Netyap_82:
(2, 53919), (Start: 5 @53979 has 21 MA's), (6, 54024), (7, 54036), (9, 54072), (12, 54126), (13, 54129),

Gene: Nicholasp3_81 Start: 53813, Stop: 54049, Start Num: 5
Candidate Starts for Nicholasp3_81:
(2, 53753), (Start: 5 @53813 has 21 MA's), (6, 53858), (7, 53870), (9, 53906), (12, 53960), (13, 53963),

Gene: OverPar_83 Start: 54063, Stop: 54299, Start Num: 5
Candidate Starts for OverPar_83:
(2, 54003), (Start: 5 @54063 has 21 MA's), (6, 54108), (7, 54120), (9, 54156), (12, 54210), (13, 54213),

Gene: Rose5_78 Start: 52495, Stop: 52725, Start Num: 5
Candidate Starts for Rose5_78:
(2, 52420), (Start: 4 @52435 has 1 MA's), (Start: 5 @52495 has 21 MA's), (8, 52558), (9, 52585), (15, 52708), (16, 52711),

Gene: Rossetti_82 Start: 54432, Stop: 54623, Start Num: 6
Candidate Starts for Rossetti_82:
(2, 54327), (6, 54432), (7, 54444), (9, 54480), (13, 54537),

Gene: Sarshaun_82 Start: 54071, Stop: 54307, Start Num: 5
Candidate Starts for Sarshaun_82:
(2, 54011), (Start: 5 @54071 has 21 MA's), (6, 54116), (7, 54128), (9, 54164), (12, 54218), (13, 54221),

Gene: SoJulia_83 Start: 55139, Stop: 55375, Start Num: 5
Candidate Starts for SoJulia_83:
(2, 55079), (Start: 5 @55139 has 21 MA's), (6, 55184), (7, 55196), (9, 55232), (12, 55286), (13, 55289),

Gene: Soap141_81 Start: 54071, Stop: 54307, Start Num: 5
Candidate Starts for Soap141_81:
(2, 54011), (Start: 5 @54071 has 21 MA's), (6, 54116), (7, 54128), (9, 54164), (12, 54218), (13, 54221),

Gene: Tourach_80 Start: 54051, Stop: 54332, Start Num: 4
Candidate Starts for Tourach_80:
(2, 54036), (Start: 4 @54051 has 1 MA's), (8, 54162), (9, 54189), (10, 54219), (14, 54306),

Gene: UPIE_77 Start: 52017, Stop: 52247, Start Num: 5
Candidate Starts for UPIE_77:
(2, 51942), (Start: 4 @51957 has 1 MA's), (Start: 5 @52017 has 21 MA's), (8, 52080), (9, 52107), (15, 52230), (16, 52233),

Gene: Underpass_72 Start: 48849, Stop: 49085, Start Num: 5
Candidate Starts for Underpass_72:
(2, 48789), (Start: 5 @48849 has 21 MA's), (6, 48894), (7, 48906), (9, 48942), (12, 48996), (13, 48999),

Gene: Vetrix_80 Start: 53895, Stop: 54131, Start Num: 5
Candidate Starts for Vetrix_80:
(2, 53835), (Start: 5 @53895 has 21 MA's), (6, 53940), (7, 53952), (9, 53988), (13, 54045),

Gene: Wamburgrxpress_78 Start: 52456, Stop: 52686, Start Num: 5
Candidate Starts for Wamburgrxpress_78:
(2, 52381), (Start: 4 @52396 has 1 MA's), (Start: 5 @52456 has 21 MA's), (8, 52519), (9, 52546), (15, 52669), (16, 52672),

Gene: Wigglewiggle_80 Start: 53840, Stop: 54076, Start Num: 5
Candidate Starts for Wigglewiggle_80:
(2, 53780), (Start: 5 @53840 has 21 MA's), (6, 53885), (7, 53897), (9, 53933), (11, 53975), (12, 53987), (13, 53990),

Gene: ZhongYanYuan_78 Start: 53431, Stop: 53667, Start Num: 5
Candidate Starts for ZhongYanYuan_78:
(2, 53371), (Start: 5 @53431 has 21 MA's), (6, 53476), (7, 53488), (9, 53524), (11, 53566), (12, 53578), (13, 53581),