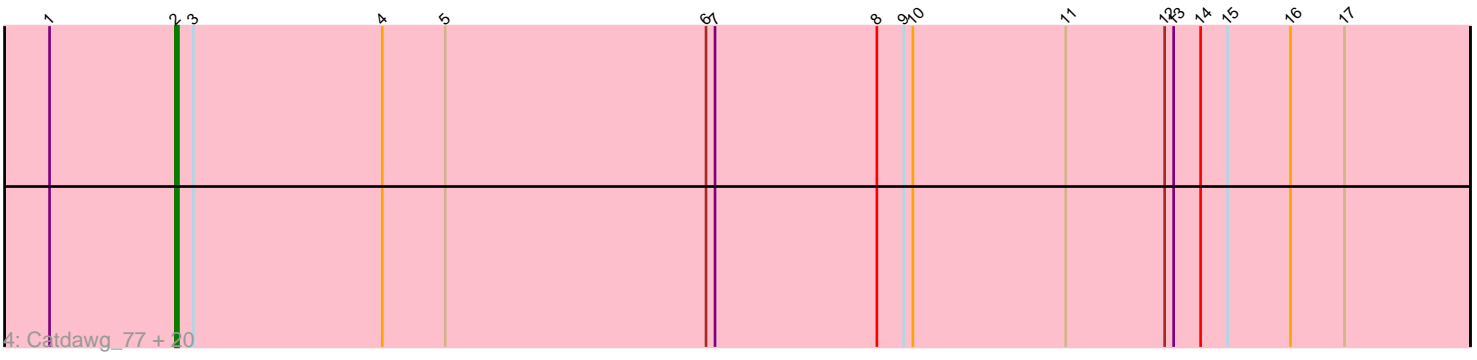
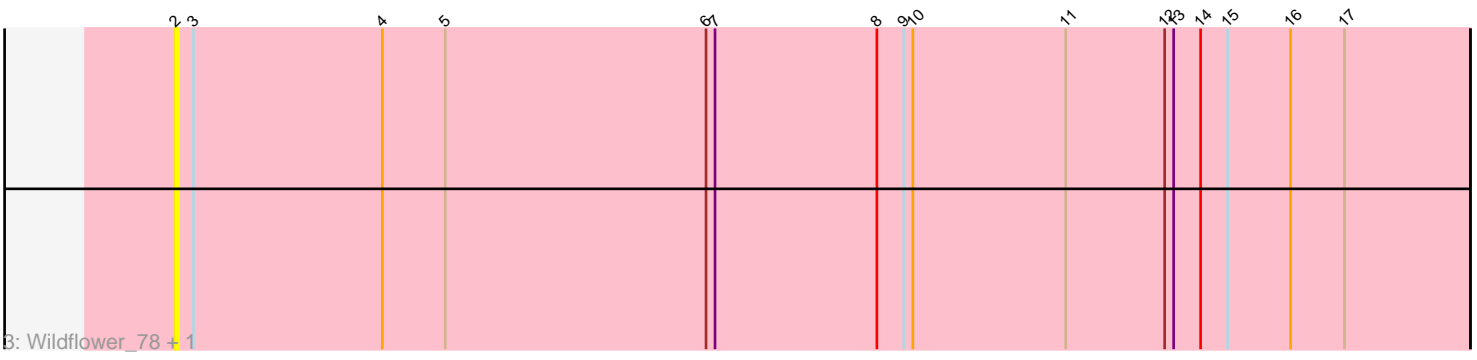
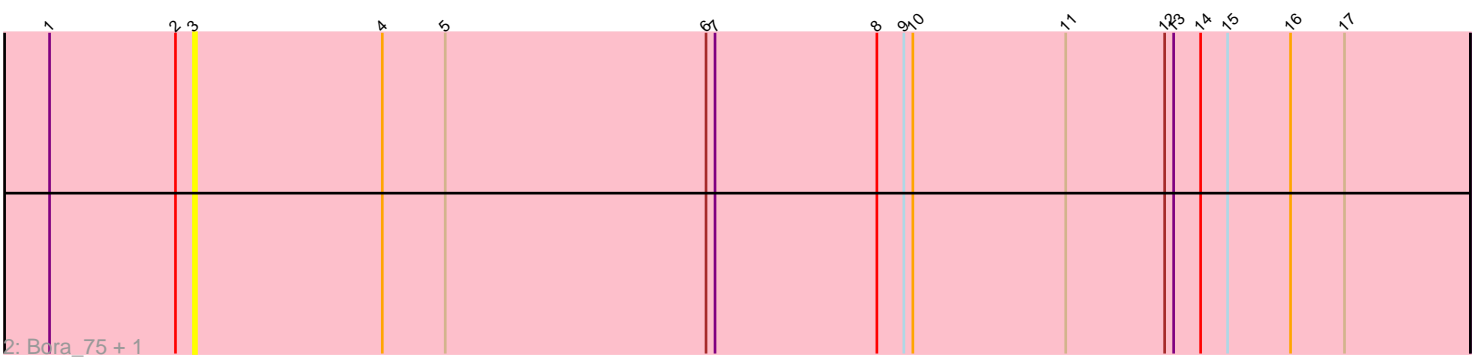
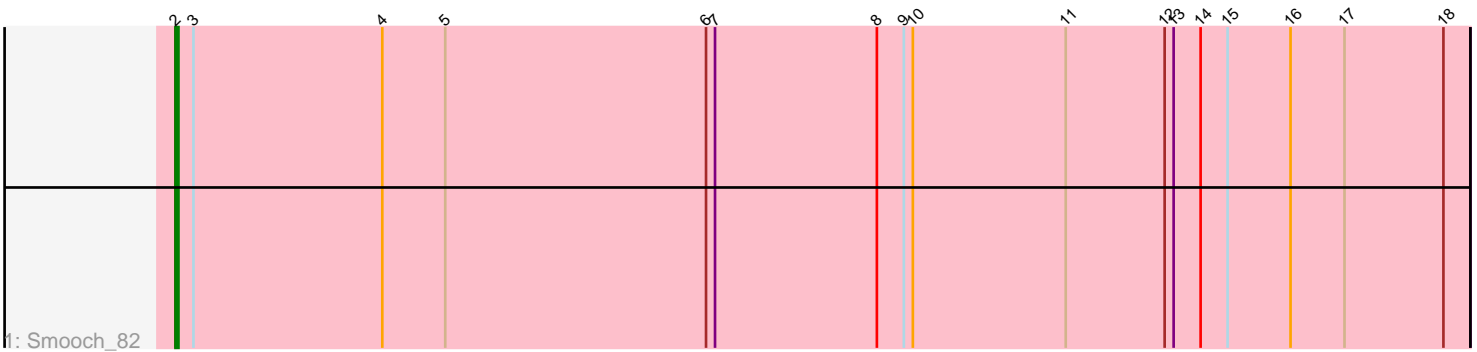


Pham 86562



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 86562 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86562 has 26 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Smooch_82
- Track 2 : Bora_75, Alkhayr_75
- Track 3 : Wildflower_78, Ashwin_80
- Track 4 : Catdawg_77, Krili_77, Murai_78, Schuy_76, Firecracker_81, Dylan_80, Familton_78, Vorrps_78, Blessica_78, JangDynasty_77, TelAviv_74, Mori_78, FoulBall_75, Ryadel_81, Zakhe101_79, Idergollasper_77, NiebruSaylor_77, SchoolBus_77, Winget_78, MadKillah_79, Shida_77

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

The start number called the most often in the published annotations is 2, it was called in 20 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ashwin_80, Blessica_78, Catdawg_77, Dylan_80, Familton_78, Firecracker_81, FoulBall_75, Idergollasper_77, JangDynasty_77, Krili_77, MadKillah_79, Mori_78, Murai_78, NiebruSaylor_77, Ryadel_81, SchoolBus_77, Schuy_76, Shida_77, Smooch_82, TelAviv_74, Vorrps_78, Wildflower_78, Winget_78, Zakhe101_79,

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

- Alkhayr_75, Bora_75,

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

-

Summary by start number:

Start 2:

- Found in 26 of 26 (100.0%) of genes in pham
- Manual Annotations of this start: 20 of 20
- Called 92.3% of time when present
- Phage (with cluster) where this start called: Ashwin_80 (O), Blessica_78 (O), Catdawg_77 (O), Dylan_80 (O), Familton_78 (O), Firecracker_81 (O), FoulBall_75 (O), Idergollasper_77 (O), JangDynasty_77 (O), Krili_77 (O), MadKillah_79 (O),

Mori_78 (O), Murai_78 (O), NiebruSaylor_77 (O), Ryadel_81 (O), SchoolBus_77 (O), Schuy_76 (O), Shida_77 (O), Smooch_82 (O), TelAviv_74 (O), Vorrrps_78 (O), Wildflower_78 (O), Winget_78 (O), Zakhe101_79 (O),

Start 3:

- Found in 26 of 26 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 7.7% of time when present
- Phage (with cluster) where this start called: Alkhayr_75 (O), Bora_75 (O),

Summary by clusters:

There is one cluster represented in this pham: O

Info for manual annotations of cluster O:

- Start number 2 was manually annotated 20 times for cluster O.

Gene Information:

Gene: Alkhayr_75 Start: 48252, Stop: 47827, Start Num: 3

Candidate Starts for Alkhayr_75:

(1, 48300), (Start: 2 @48258 has 20 MA's), (3, 48252), (4, 48189), (5, 48168), (6, 48081), (7, 48078), (8, 48024), (9, 48015), (10, 48012), (11, 47961), (12, 47928), (13, 47925), (14, 47916), (15, 47907), (16, 47886), (17, 47868),

Gene: Ashwin_80 Start: 50017, Stop: 49586, Start Num: 2

Candidate Starts for Ashwin_80:

(Start: 2 @50017 has 20 MA's), (3, 50011), (4, 49948), (5, 49927), (6, 49840), (7, 49837), (8, 49783), (9, 49774), (10, 49771), (11, 49720), (12, 49687), (13, 49684), (14, 49675), (15, 49666), (16, 49645), (17, 49627),

Gene: Blessica_78 Start: 48808, Stop: 48377, Start Num: 2

Candidate Starts for Blessica_78:

(1, 48850), (Start: 2 @48808 has 20 MA's), (3, 48802), (4, 48739), (5, 48718), (6, 48631), (7, 48628), (8, 48574), (9, 48565), (10, 48562), (11, 48511), (12, 48478), (13, 48475), (14, 48466), (15, 48457), (16, 48436), (17, 48418),

Gene: Bora_75 Start: 48183, Stop: 47758, Start Num: 3

Candidate Starts for Bora_75:

(1, 48231), (Start: 2 @48189 has 20 MA's), (3, 48183), (4, 48120), (5, 48099), (6, 48012), (7, 48009), (8, 47955), (9, 47946), (10, 47943), (11, 47892), (12, 47859), (13, 47856), (14, 47847), (15, 47838), (16, 47817), (17, 47799),

Gene: Catdawg_77 Start: 48544, Stop: 48113, Start Num: 2

Candidate Starts for Catdawg_77:

(1, 48586), (Start: 2 @48544 has 20 MA's), (3, 48538), (4, 48475), (5, 48454), (6, 48367), (7, 48364), (8, 48310), (9, 48301), (10, 48298), (11, 48247), (12, 48214), (13, 48211), (14, 48202), (15, 48193), (16, 48172), (17, 48154),

Gene: Dylan_80 Start: 49733, Stop: 49302, Start Num: 2

Candidate Starts for Dylan_80:

(1, 49775), (Start: 2 @49733 has 20 MA's), (3, 49727), (4, 49664), (5, 49643), (6, 49556), (7, 49553), (8, 49499), (9, 49490), (10, 49487), (11, 49436), (12, 49403), (13, 49400), (14, 49391), (15, 49382), (16, 49361), (17, 49343),

Gene: Familton_78 Start: 48501, Stop: 48070, Start Num: 2

Candidate Starts for Familton_78:

(1, 48543), (Start: 2 @48501 has 20 MA's), (3, 48495), (4, 48432), (5, 48411), (6, 48324), (7, 48321), (8, 48267), (9, 48258), (10, 48255), (11, 48204), (12, 48171), (13, 48168), (14, 48159), (15, 48150), (16, 48129), (17, 48111),

Gene: Firecracker_81 Start: 49891, Stop: 49460, Start Num: 2

Candidate Starts for Firecracker_81:

(1, 49933), (Start: 2 @49891 has 20 MA's), (3, 49885), (4, 49822), (5, 49801), (6, 49714), (7, 49711), (8, 49657), (9, 49648), (10, 49645), (11, 49594), (12, 49561), (13, 49558), (14, 49549), (15, 49540), (16, 49519), (17, 49501),

Gene: FoulBall_75 Start: 48541, Stop: 48110, Start Num: 2

Candidate Starts for FoulBall_75:

(1, 48583), (Start: 2 @48541 has 20 MA's), (3, 48535), (4, 48472), (5, 48451), (6, 48364), (7, 48361), (8, 48307), (9, 48298), (10, 48295), (11, 48244), (12, 48211), (13, 48208), (14, 48199), (15, 48190), (16, 48169), (17, 48151),

Gene: Idergollasper_77 Start: 48495, Stop: 48064, Start Num: 2

Candidate Starts for Idergollasper_77:

(1, 48537), (Start: 2 @48495 has 20 MA's), (3, 48489), (4, 48426), (5, 48405), (6, 48318), (7, 48315), (8, 48261), (9, 48252), (10, 48249), (11, 48198), (12, 48165), (13, 48162), (14, 48153), (15, 48144), (16, 48123), (17, 48105),

Gene: JangDynasty_77 Start: 48562, Stop: 48131, Start Num: 2

Candidate Starts for JangDynasty_77:

(1, 48604), (Start: 2 @48562 has 20 MA's), (3, 48556), (4, 48493), (5, 48472), (6, 48385), (7, 48382), (8, 48328), (9, 48319), (10, 48316), (11, 48265), (12, 48232), (13, 48229), (14, 48220), (15, 48211), (16, 48190), (17, 48172),

Gene: Krili_77 Start: 48054, Stop: 47623, Start Num: 2

Candidate Starts for Krili_77:

(1, 48096), (Start: 2 @48054 has 20 MA's), (3, 48048), (4, 47985), (5, 47964), (6, 47877), (7, 47874), (8, 47820), (9, 47811), (10, 47808), (11, 47757), (12, 47724), (13, 47721), (14, 47712), (15, 47703), (16, 47682), (17, 47664),

Gene: MadKillah_79 Start: 48323, Stop: 47892, Start Num: 2

Candidate Starts for MadKillah_79:

(1, 48365), (Start: 2 @48323 has 20 MA's), (3, 48317), (4, 48254), (5, 48233), (6, 48146), (7, 48143), (8, 48089), (9, 48080), (10, 48077), (11, 48026), (12, 47993), (13, 47990), (14, 47981), (15, 47972), (16, 47951), (17, 47933),

Gene: Mori_78 Start: 48582, Stop: 48151, Start Num: 2

Candidate Starts for Mori_78:

(1, 48624), (Start: 2 @48582 has 20 MA's), (3, 48576), (4, 48513), (5, 48492), (6, 48405), (7, 48402), (8, 48348), (9, 48339), (10, 48336), (11, 48285), (12, 48252), (13, 48249), (14, 48240), (15, 48231), (16, 48210), (17, 48192),

Gene: Murai_78 Start: 48717, Stop: 48286, Start Num: 2

Candidate Starts for Murai_78:

(1, 48759), (Start: 2 @48717 has 20 MA's), (3, 48711), (4, 48648), (5, 48627), (6, 48540), (7, 48537), (8, 48483), (9, 48474), (10, 48471), (11, 48420), (12, 48387), (13, 48384), (14, 48375), (15, 48366), (16, 48345), (17, 48327),

Gene: NiebruSaylor_77 Start: 47973, Stop: 47542, Start Num: 2

Candidate Starts for NiebruSaylor_77:

(1, 48015), (Start: 2 @47973 has 20 MA's), (3, 47967), (4, 47904), (5, 47883), (6, 47796), (7, 47793), (8, 47739), (9, 47730), (10, 47727), (11, 47676), (12, 47643), (13, 47640), (14, 47631), (15, 47622), (16, 47601), (17, 47583),

Gene: Ryadel_81 Start: 49329, Stop: 48898, Start Num: 2

Candidate Starts for Ryadel_81:

(1, 49371), (Start: 2 @49329 has 20 MA's), (3, 49323), (4, 49260), (5, 49239), (6, 49152), (7, 49149), (8, 49095), (9, 49086), (10, 49083), (11, 49032), (12, 48999), (13, 48996), (14, 48987), (15, 48978), (16, 48957), (17, 48939),

Gene: SchoolBus_77 Start: 48477, Stop: 48046, Start Num: 2

Candidate Starts for SchoolBus_77:

(1, 48519), (Start: 2 @48477 has 20 MA's), (3, 48471), (4, 48408), (5, 48387), (6, 48300), (7, 48297), (8, 48243), (9, 48234), (10, 48231), (11, 48180), (12, 48147), (13, 48144), (14, 48135), (15, 48126), (16, 48105), (17, 48087),

Gene: Schuy_76 Start: 48326, Stop: 47895, Start Num: 2

Candidate Starts for Schuy_76:

(1, 48368), (Start: 2 @48326 has 20 MA's), (3, 48320), (4, 48257), (5, 48236), (6, 48149), (7, 48146), (8, 48092), (9, 48083), (10, 48080), (11, 48029), (12, 47996), (13, 47993), (14, 47984), (15, 47975), (16, 47954), (17, 47936),

Gene: Shida_77 Start: 48168, Stop: 47737, Start Num: 2

Candidate Starts for Shida_77:

(1, 48210), (Start: 2 @48168 has 20 MA's), (3, 48162), (4, 48099), (5, 48078), (6, 47991), (7, 47988), (8, 47934), (9, 47925), (10, 47922), (11, 47871), (12, 47838), (13, 47835), (14, 47826), (15, 47817), (16, 47796), (17, 47778),

Gene: Smooch_82 Start: 51232, Stop: 50801, Start Num: 2

Candidate Starts for Smooch_82:

(Start: 2 @51232 has 20 MA's), (3, 51226), (4, 51163), (5, 51142), (6, 51055), (7, 51052), (8, 50998), (9, 50989), (10, 50986), (11, 50935), (12, 50902), (13, 50899), (14, 50890), (15, 50881), (16, 50860), (17, 50842), (18, 50809),

Gene: TelAviv_74 Start: 48462, Stop: 48031, Start Num: 2

Candidate Starts for TelAviv_74:

(1, 48504), (Start: 2 @48462 has 20 MA's), (3, 48456), (4, 48393), (5, 48372), (6, 48285), (7, 48282), (8, 48228), (9, 48219), (10, 48216), (11, 48165), (12, 48132), (13, 48129), (14, 48120), (15, 48111), (16, 48090), (17, 48072),

Gene: Vorrrps_78 Start: 48583, Stop: 48152, Start Num: 2

Candidate Starts for Vorrrps_78:

(1, 48625), (Start: 2 @48583 has 20 MA's), (3, 48577), (4, 48514), (5, 48493), (6, 48406), (7, 48403), (8, 48349), (9, 48340), (10, 48337), (11, 48286), (12, 48253), (13, 48250), (14, 48241), (15, 48232), (16, 48211), (17, 48193),

Gene: Wildflower_78 Start: 49323, Stop: 48892, Start Num: 2

Candidate Starts for Wildflower_78:

(Start: 2 @49323 has 20 MA's), (3, 49317), (4, 49254), (5, 49233), (6, 49146), (7, 49143), (8, 49089), (9, 49080), (10, 49077), (11, 49026), (12, 48993), (13, 48990), (14, 48981), (15, 48972), (16, 48951), (17, 48933),

Gene: Winget_78 Start: 48755, Stop: 48324, Start Num: 2

Candidate Starts for Winget_78:

(1, 48797), (Start: 2 @48755 has 20 MA's), (3, 48749), (4, 48686), (5, 48665), (6, 48578), (7, 48575), (8, 48521), (9, 48512), (10, 48509), (11, 48458), (12, 48425), (13, 48422), (14, 48413), (15, 48404), (16, 48383), (17, 48365),

Gene: Zakhe101_79 Start: 49737, Stop: 49306, Start Num: 2

Candidate Starts for Zakhe101_79:

(1, 49779), (Start: 2 @49737 has 20 MA's), (3, 49731), (4, 49668), (5, 49647), (6, 49560), (7, 49557), (8, 49503), (9, 49494), (10, 49491), (11, 49440), (12, 49407), (13, 49404), (14, 49395), (15, 49386), (16, 49365), (17, 49347),