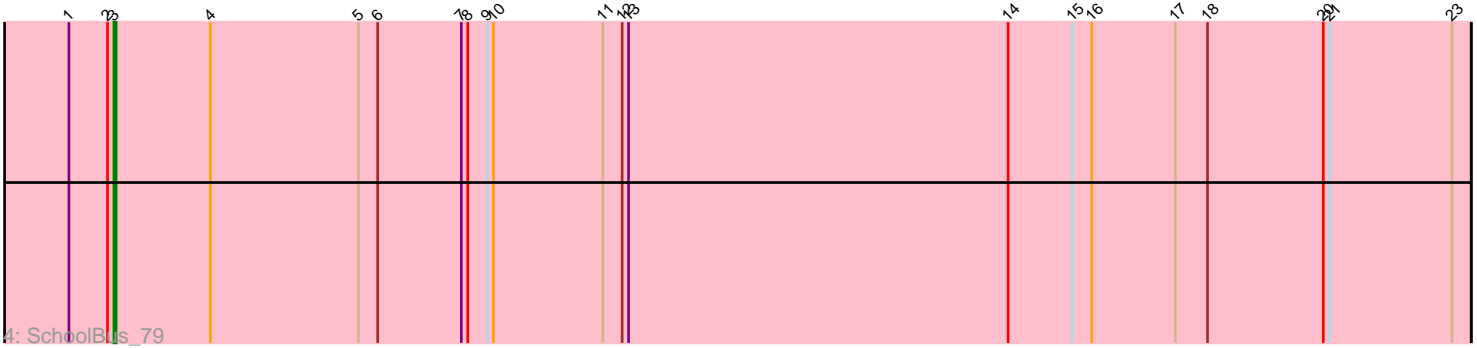
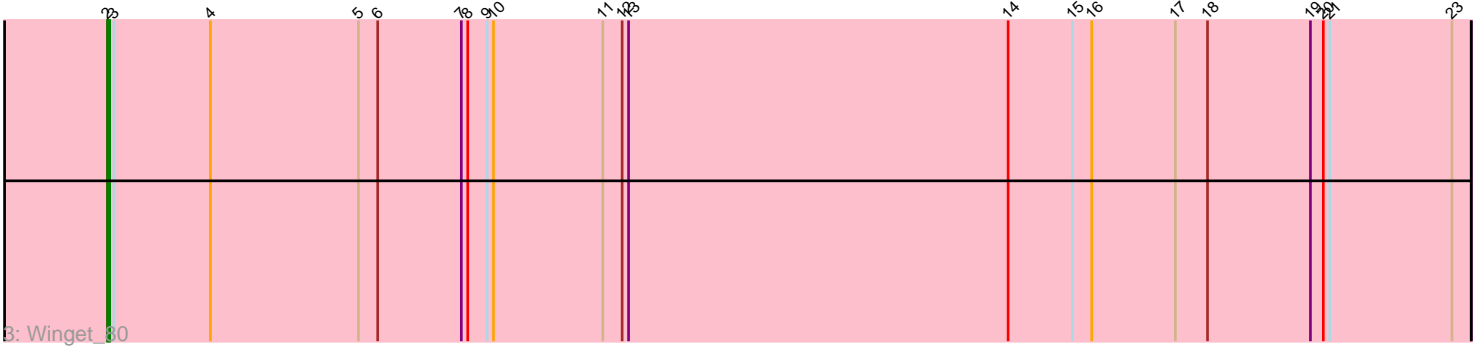
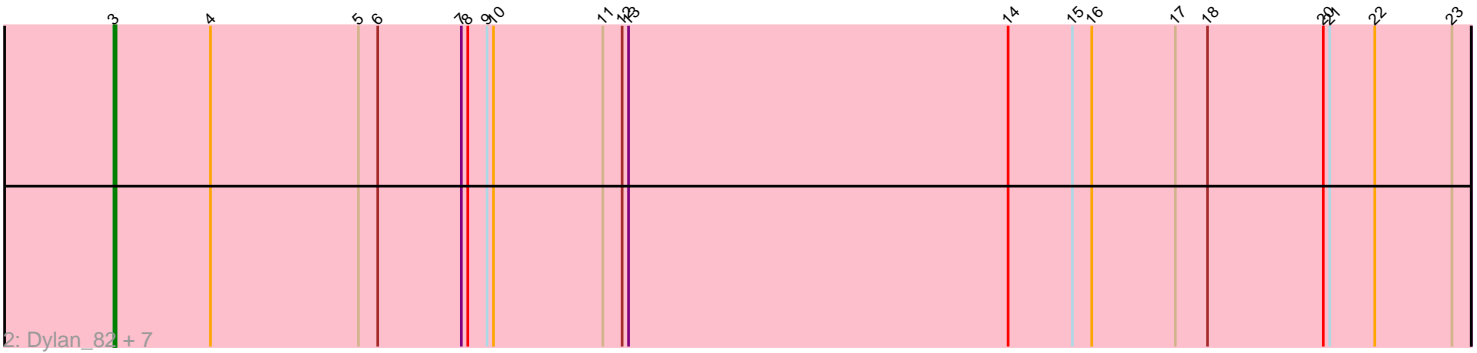
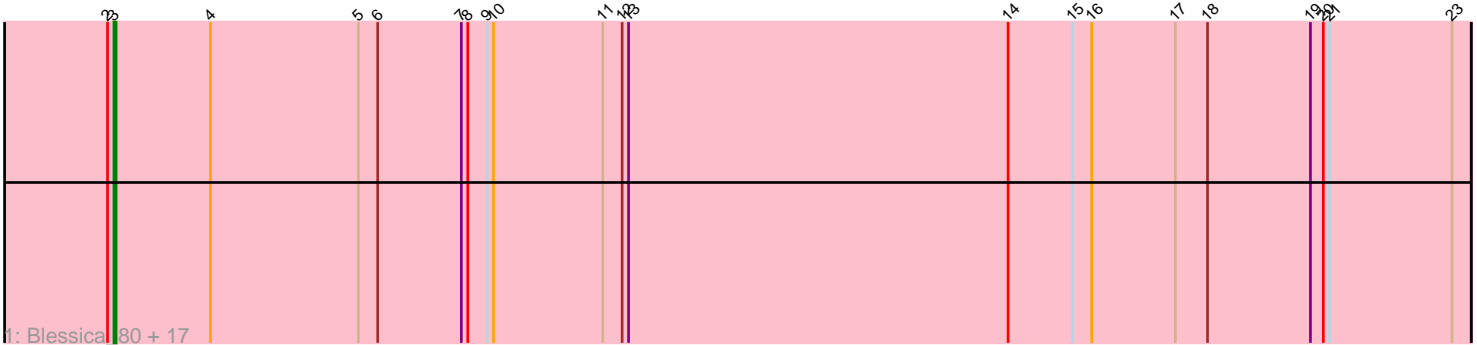


Pham 3463



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 3463 Report

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

Pham number 3463 has 28 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Blessica_80, Bora_77, Schuy_78, Krili_79, Familton_80, Vorrps_80, Catdawg_79, MadKillah_81, JangDynasty_79, NiebruSaylor_79, Murai_80, FoulBall_77, Ryadel_83, Alkhayr_77, Shida_79, TelAviv_76, Mori_80, Idergollasper_79
- Track 2 : Dylan_82, Smooch_84, Firecracker_83, Zakhe101_81, Wildflower_80, Corndog_83, Ashwin_82, YungJamal_85
- Track 3 : Winget_80
- Track 4 : SchoolBus_79

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

The start number called the most often in the published annotations is 3, it was called in 21 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alkhayr_77, Ashwin_82, Blessica_80, Bora_77, Catdawg_79, Corndog_83, Dylan_82, Familton_80, Firecracker_83, FoulBall_77, Idergollasper_79, JangDynasty_79, Krili_79, MadKillah_81, Mori_80, Murai_80, NiebruSaylor_79, Ryadel_83, SchoolBus_79, Schuy_78, Shida_79, Smooch_84, TelAviv_76, Vorrps_80, Wildflower_80, YungJamal_85, Zakhe101_81,

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

- Winget_80,

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

•

Summary by start number:

Start 2:

- Found in 20 of 28 (71.4%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 5.0% of time when present
- Phage (with cluster) where this start called: Winget_80 (O),

Start 3:

- Found in 28 of 28 (100.0%) of genes in pham
- Manual Annotations of this start: 21 of 22
- Called 96.4% of time when present
- Phage (with cluster) where this start called: Alkhayr_77 (O), Ashwin_82 (O), Blessica_80 (O), Bora_77 (O), Catdawg_79 (O), Corndog_83 (O), Dylan_82 (O), Familton_80 (O), Firecracker_83 (O), FoulBall_77 (O), Idergollasper_79 (O), JangDynasty_79 (O), Krili_79 (O), MadKillah_81 (O), Mori_80 (O), Murai_80 (O), NiebruSaylor_79 (O), Ryadel_83 (O), SchoolBus_79 (O), Schuy_78 (O), Shida_79 (O), Smooch_84 (O), TelAviv_76 (O), Vorrps_80 (O), Wildflower_80 (O), YungJamal_85 (O), Zakhe101_81 (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 1 time for cluster O.
- Start number 3 was manually annotated 21 times for cluster O.

Gene Information:

Gene: Alkhayr_77 Start: 49657, Stop: 49025, Start Num: 3

Candidate Starts for Alkhayr_77:

(Start: 2 @49660 has 1 MA's), (Start: 3 @49657 has 21 MA's), (4, 49612), (5, 49543), (6, 49534), (7, 49495), (8, 49492), (9, 49483), (10, 49480), (11, 49429), (12, 49420), (13, 49417), (14, 49240), (15, 49210), (16, 49201), (17, 49162), (18, 49147), (19, 49099), (20, 49093), (21, 49090), (23, 49033),

Gene: Ashwin_82 Start: 51414, Stop: 50782, Start Num: 3

Candidate Starts for Ashwin_82:

(Start: 3 @51414 has 21 MA's), (4, 51369), (5, 51300), (6, 51291), (7, 51252), (8, 51249), (9, 51240), (10, 51237), (11, 51186), (12, 51177), (13, 51174), (14, 50997), (15, 50967), (16, 50958), (17, 50919), (18, 50904), (20, 50850), (21, 50847), (22, 50826), (23, 50790),

Gene: Blessica_80 Start: 50205, Stop: 49573, Start Num: 3

Candidate Starts for Blessica_80:

(Start: 2 @50208 has 1 MA's), (Start: 3 @50205 has 21 MA's), (4, 50160), (5, 50091), (6, 50082), (7, 50043), (8, 50040), (9, 50031), (10, 50028), (11, 49977), (12, 49968), (13, 49965), (14, 49788), (15, 49758), (16, 49749), (17, 49710), (18, 49695), (19, 49647), (20, 49641), (21, 49638), (23, 49581),

Gene: Bora_77 Start: 49586, Stop: 48954, Start Num: 3

Candidate Starts for Bora_77:

(Start: 2 @49589 has 1 MA's), (Start: 3 @49586 has 21 MA's), (4, 49541), (5, 49472), (6, 49463), (7, 49424), (8, 49421), (9, 49412), (10, 49409), (11, 49358), (12, 49349), (13, 49346), (14, 49169), (15, 49139), (16, 49130), (17, 49091), (18, 49076), (19, 49028), (20, 49022), (21, 49019), (23, 48962),

Gene: Catdawg_79 Start: 49941, Stop: 49309, Start Num: 3

Candidate Starts for Catdawg_79:

(Start: 2 @49944 has 1 MA's), (Start: 3 @49941 has 21 MA's), (4, 49896), (5, 49827), (6, 49818), (7, 49779), (8, 49776), (9, 49767), (10, 49764), (11, 49713), (12, 49704), (13, 49701), (14, 49524), (15,

49494), (16, 49485), (17, 49446), (18, 49431), (19, 49383), (20, 49377), (21, 49374), (23, 49317),

Gene: Corndog_83 Start: 50996, Stop: 50364, Start Num: 3

Candidate Starts for Corndog_83:

(Start: 3 @50996 has 21 MA's), (4, 50951), (5, 50882), (6, 50873), (7, 50834), (8, 50831), (9, 50822), (10, 50819), (11, 50768), (12, 50759), (13, 50756), (14, 50579), (15, 50549), (16, 50540), (17, 50501), (18, 50486), (20, 50432), (21, 50429), (22, 50408), (23, 50372),

Gene: Dylan_82 Start: 51130, Stop: 50498, Start Num: 3

Candidate Starts for Dylan_82:

(Start: 3 @51130 has 21 MA's), (4, 51085), (5, 51016), (6, 51007), (7, 50968), (8, 50965), (9, 50956), (10, 50953), (11, 50902), (12, 50893), (13, 50890), (14, 50713), (15, 50683), (16, 50674), (17, 50635), (18, 50620), (20, 50566), (21, 50563), (22, 50542), (23, 50506),

Gene: Familton_80 Start: 49898, Stop: 49266, Start Num: 3

Candidate Starts for Familton_80:

(Start: 2 @49901 has 1 MA's), (Start: 3 @49898 has 21 MA's), (4, 49853), (5, 49784), (6, 49775), (7, 49736), (8, 49733), (9, 49724), (10, 49721), (11, 49670), (12, 49661), (13, 49658), (14, 49481), (15, 49451), (16, 49442), (17, 49403), (18, 49388), (19, 49340), (20, 49334), (21, 49331), (23, 49274),

Gene: Firecracker_83 Start: 51288, Stop: 50656, Start Num: 3

Candidate Starts for Firecracker_83:

(Start: 3 @51288 has 21 MA's), (4, 51243), (5, 51174), (6, 51165), (7, 51126), (8, 51123), (9, 51114), (10, 51111), (11, 51060), (12, 51051), (13, 51048), (14, 50871), (15, 50841), (16, 50832), (17, 50793), (18, 50778), (20, 50724), (21, 50721), (22, 50700), (23, 50664),

Gene: FoulBall_77 Start: 49940, Stop: 49308, Start Num: 3

Candidate Starts for FoulBall_77:

(Start: 2 @49943 has 1 MA's), (Start: 3 @49940 has 21 MA's), (4, 49895), (5, 49826), (6, 49817), (7, 49778), (8, 49775), (9, 49766), (10, 49763), (11, 49712), (12, 49703), (13, 49700), (14, 49523), (15, 49493), (16, 49484), (17, 49445), (18, 49430), (19, 49382), (20, 49376), (21, 49373), (23, 49316),

Gene: Idergollasper_79 Start: 49892, Stop: 49260, Start Num: 3

Candidate Starts for Idergollasper_79:

(Start: 2 @49895 has 1 MA's), (Start: 3 @49892 has 21 MA's), (4, 49847), (5, 49778), (6, 49769), (7, 49730), (8, 49727), (9, 49718), (10, 49715), (11, 49664), (12, 49655), (13, 49652), (14, 49475), (15, 49445), (16, 49436), (17, 49397), (18, 49382), (19, 49334), (20, 49328), (21, 49325), (23, 49268),

Gene: JangDynasty_79 Start: 49959, Stop: 49327, Start Num: 3

Candidate Starts for JangDynasty_79:

(Start: 2 @49962 has 1 MA's), (Start: 3 @49959 has 21 MA's), (4, 49914), (5, 49845), (6, 49836), (7, 49797), (8, 49794), (9, 49785), (10, 49782), (11, 49731), (12, 49722), (13, 49719), (14, 49542), (15, 49512), (16, 49503), (17, 49464), (18, 49449), (19, 49401), (20, 49395), (21, 49392), (23, 49335),

Gene: Krili_79 Start: 49453, Stop: 48821, Start Num: 3

Candidate Starts for Krili_79:

(Start: 2 @49456 has 1 MA's), (Start: 3 @49453 has 21 MA's), (4, 49408), (5, 49339), (6, 49330), (7, 49291), (8, 49288), (9, 49279), (10, 49276), (11, 49225), (12, 49216), (13, 49213), (14, 49036), (15, 49006), (16, 48997), (17, 48958), (18, 48943), (19, 48895), (20, 48889), (21, 48886), (23, 48829),

Gene: MadKillah_81 Start: 49722, Stop: 49090, Start Num: 3

Candidate Starts for MadKillah_81:

(Start: 2 @49725 has 1 MA's), (Start: 3 @49722 has 21 MA's), (4, 49677), (5, 49608), (6, 49599), (7, 49560), (8, 49557), (9, 49548), (10, 49545), (11, 49494), (12, 49485), (13, 49482), (14, 49305), (15, 49275), (16, 49266), (17, 49227), (18, 49212), (19, 49164), (20, 49158), (21, 49155), (23, 49098),

Gene: Mori_80 Start: 49981, Stop: 49349, Start Num: 3

Candidate Starts for Mori_80:

(Start: 2 @49984 has 1 MA's), (Start: 3 @49981 has 21 MA's), (4, 49936), (5, 49867), (6, 49858), (7, 49819), (8, 49816), (9, 49807), (10, 49804), (11, 49753), (12, 49744), (13, 49741), (14, 49564), (15, 49534), (16, 49525), (17, 49486), (18, 49471), (19, 49423), (20, 49417), (21, 49414), (23, 49357),

Gene: Murai_80 Start: 50114, Stop: 49482, Start Num: 3

Candidate Starts for Murai_80:

(Start: 2 @50117 has 1 MA's), (Start: 3 @50114 has 21 MA's), (4, 50069), (5, 50000), (6, 49991), (7, 49952), (8, 49949), (9, 49940), (10, 49937), (11, 49886), (12, 49877), (13, 49874), (14, 49697), (15, 49667), (16, 49658), (17, 49619), (18, 49604), (19, 49556), (20, 49550), (21, 49547), (23, 49490),

Gene: NiebruSaylor_79 Start: 49372, Stop: 48740, Start Num: 3

Candidate Starts for NiebruSaylor_79:

(Start: 2 @49375 has 1 MA's), (Start: 3 @49372 has 21 MA's), (4, 49327), (5, 49258), (6, 49249), (7, 49210), (8, 49207), (9, 49198), (10, 49195), (11, 49144), (12, 49135), (13, 49132), (14, 48955), (15, 48925), (16, 48916), (17, 48877), (18, 48862), (19, 48814), (20, 48808), (21, 48805), (23, 48748),

Gene: Ryadel_83 Start: 50728, Stop: 50096, Start Num: 3

Candidate Starts for Ryadel_83:

(Start: 2 @50731 has 1 MA's), (Start: 3 @50728 has 21 MA's), (4, 50683), (5, 50614), (6, 50605), (7, 50566), (8, 50563), (9, 50554), (10, 50551), (11, 50500), (12, 50491), (13, 50488), (14, 50311), (15, 50281), (16, 50272), (17, 50233), (18, 50218), (19, 50170), (20, 50164), (21, 50161), (23, 50104),

Gene: SchoolBus_79 Start: 49876, Stop: 49244, Start Num: 3

Candidate Starts for SchoolBus_79:

(1, 49897), (Start: 2 @49879 has 1 MA's), (Start: 3 @49876 has 21 MA's), (4, 49831), (5, 49762), (6, 49753), (7, 49714), (8, 49711), (9, 49702), (10, 49699), (11, 49648), (12, 49639), (13, 49636), (14, 49459), (15, 49429), (16, 49420), (17, 49381), (18, 49366), (20, 49312), (21, 49309), (23, 49252),

Gene: Schuy_78 Start: 49725, Stop: 49093, Start Num: 3

Candidate Starts for Schuy_78:

(Start: 2 @49728 has 1 MA's), (Start: 3 @49725 has 21 MA's), (4, 49680), (5, 49611), (6, 49602), (7, 49563), (8, 49560), (9, 49551), (10, 49548), (11, 49497), (12, 49488), (13, 49485), (14, 49308), (15, 49278), (16, 49269), (17, 49230), (18, 49215), (19, 49167), (20, 49161), (21, 49158), (23, 49101),

Gene: Shida_79 Start: 49565, Stop: 48933, Start Num: 3

Candidate Starts for Shida_79:

(Start: 2 @49568 has 1 MA's), (Start: 3 @49565 has 21 MA's), (4, 49520), (5, 49451), (6, 49442), (7, 49403), (8, 49400), (9, 49391), (10, 49388), (11, 49337), (12, 49328), (13, 49325), (14, 49148), (15, 49118), (16, 49109), (17, 49070), (18, 49055), (19, 49007), (20, 49001), (21, 48998), (23, 48941),

Gene: Smooch_84 Start: 52629, Stop: 51997, Start Num: 3

Candidate Starts for Smooch_84:

(Start: 3 @52629 has 21 MA's), (4, 52584), (5, 52515), (6, 52506), (7, 52467), (8, 52464), (9, 52455), (10, 52452), (11, 52401), (12, 52392), (13, 52389), (14, 52212), (15, 52182), (16, 52173), (17, 52134), (18, 52119), (20, 52065), (21, 52062), (22, 52041), (23, 52005),

Gene: TelAviv_76 Start: 49859, Stop: 49227, Start Num: 3

Candidate Starts for TelAviv_76:

(Start: 2 @49862 has 1 MA's), (Start: 3 @49859 has 21 MA's), (4, 49814), (5, 49745), (6, 49736), (7, 49697), (8, 49694), (9, 49685), (10, 49682), (11, 49631), (12, 49622), (13, 49619), (14, 49442), (15, 49412), (16, 49403), (17, 49364), (18, 49349), (19, 49301), (20, 49295), (21, 49292), (23, 49235),

Gene: Vorrrps_80 Start: 49982, Stop: 49350, Start Num: 3

Candidate Starts for Vorrrps_80:

(Start: 2 @49985 has 1 MA's), (Start: 3 @49982 has 21 MA's), (4, 49937), (5, 49868), (6, 49859), (7, 49820), (8, 49817), (9, 49808), (10, 49805), (11, 49754), (12, 49745), (13, 49742), (14, 49565), (15, 49535), (16, 49526), (17, 49487), (18, 49472), (19, 49424), (20, 49418), (21, 49415), (23, 49358),

Gene: Wildflower_80 Start: 50720, Stop: 50088, Start Num: 3

Candidate Starts for Wildflower_80:

(Start: 3 @50720 has 21 MA's), (4, 50675), (5, 50606), (6, 50597), (7, 50558), (8, 50555), (9, 50546), (10, 50543), (11, 50492), (12, 50483), (13, 50480), (14, 50303), (15, 50273), (16, 50264), (17, 50225), (18, 50210), (20, 50156), (21, 50153), (22, 50132), (23, 50096),

Gene: Winget_80 Start: 50155, Stop: 49520, Start Num: 2

Candidate Starts for Winget_80:

(Start: 2 @50155 has 1 MA's), (Start: 3 @50152 has 21 MA's), (4, 50107), (5, 50038), (6, 50029), (7, 49990), (8, 49987), (9, 49978), (10, 49975), (11, 49924), (12, 49915), (13, 49912), (14, 49735), (15, 49705), (16, 49696), (17, 49657), (18, 49642), (19, 49594), (20, 49588), (21, 49585), (23, 49528),

Gene: YungJamal_85 Start: 51944, Stop: 51312, Start Num: 3

Candidate Starts for YungJamal_85:

(Start: 3 @51944 has 21 MA's), (4, 51899), (5, 51830), (6, 51821), (7, 51782), (8, 51779), (9, 51770), (10, 51767), (11, 51716), (12, 51707), (13, 51704), (14, 51527), (15, 51497), (16, 51488), (17, 51449), (18, 51434), (20, 51380), (21, 51377), (22, 51356), (23, 51320),

Gene: Zakhe101_81 Start: 51134, Stop: 50502, Start Num: 3

Candidate Starts for Zakhe101_81:

(Start: 3 @51134 has 21 MA's), (4, 51089), (5, 51020), (6, 51011), (7, 50972), (8, 50969), (9, 50960), (10, 50957), (11, 50906), (12, 50897), (13, 50894), (14, 50717), (15, 50687), (16, 50678), (17, 50639), (18, 50624), (20, 50570), (21, 50567), (22, 50546), (23, 50510),