

S5 Fig. Dotplot analysis of *MOXD2* genomic sequences

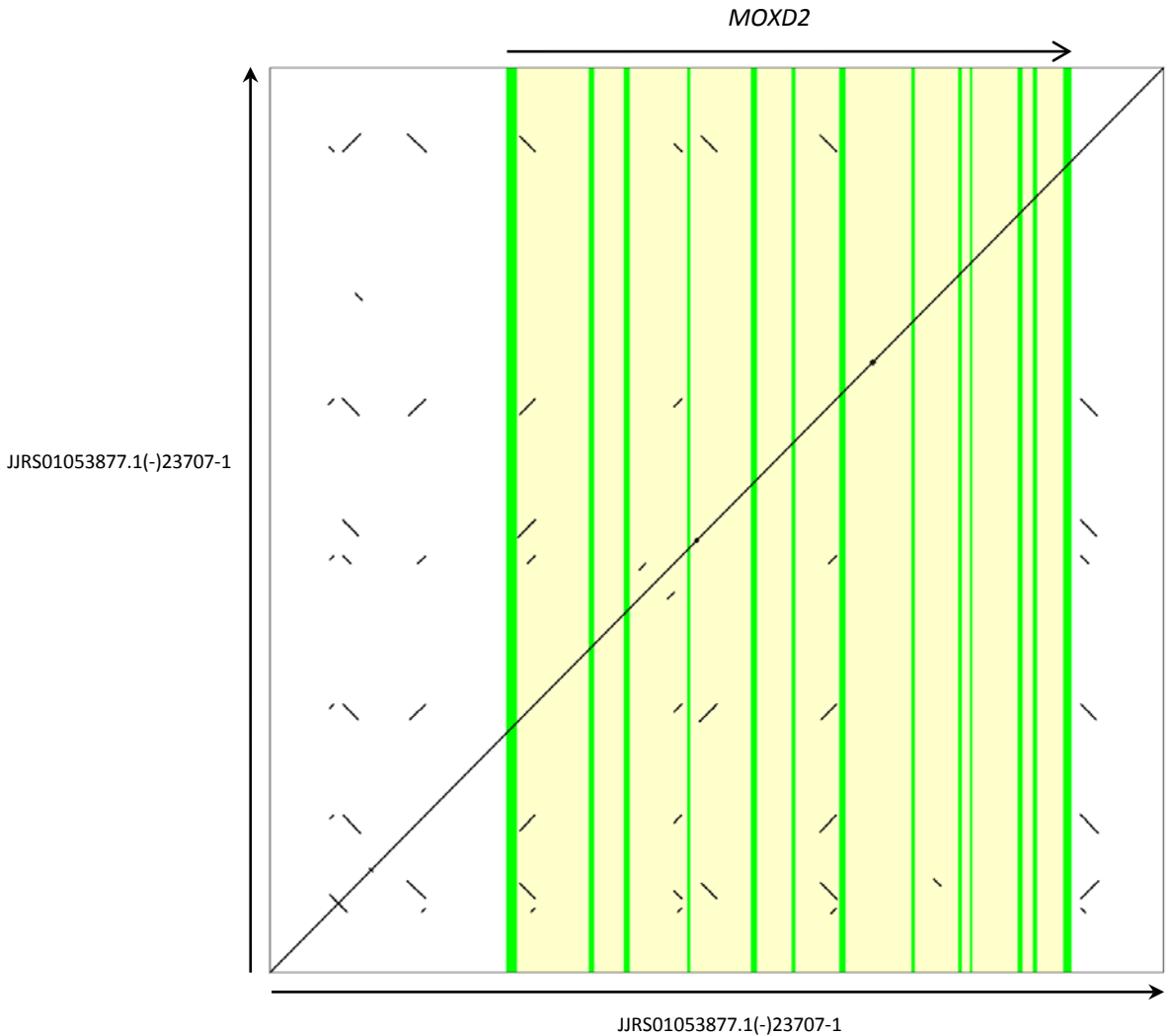
No. 1

Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman



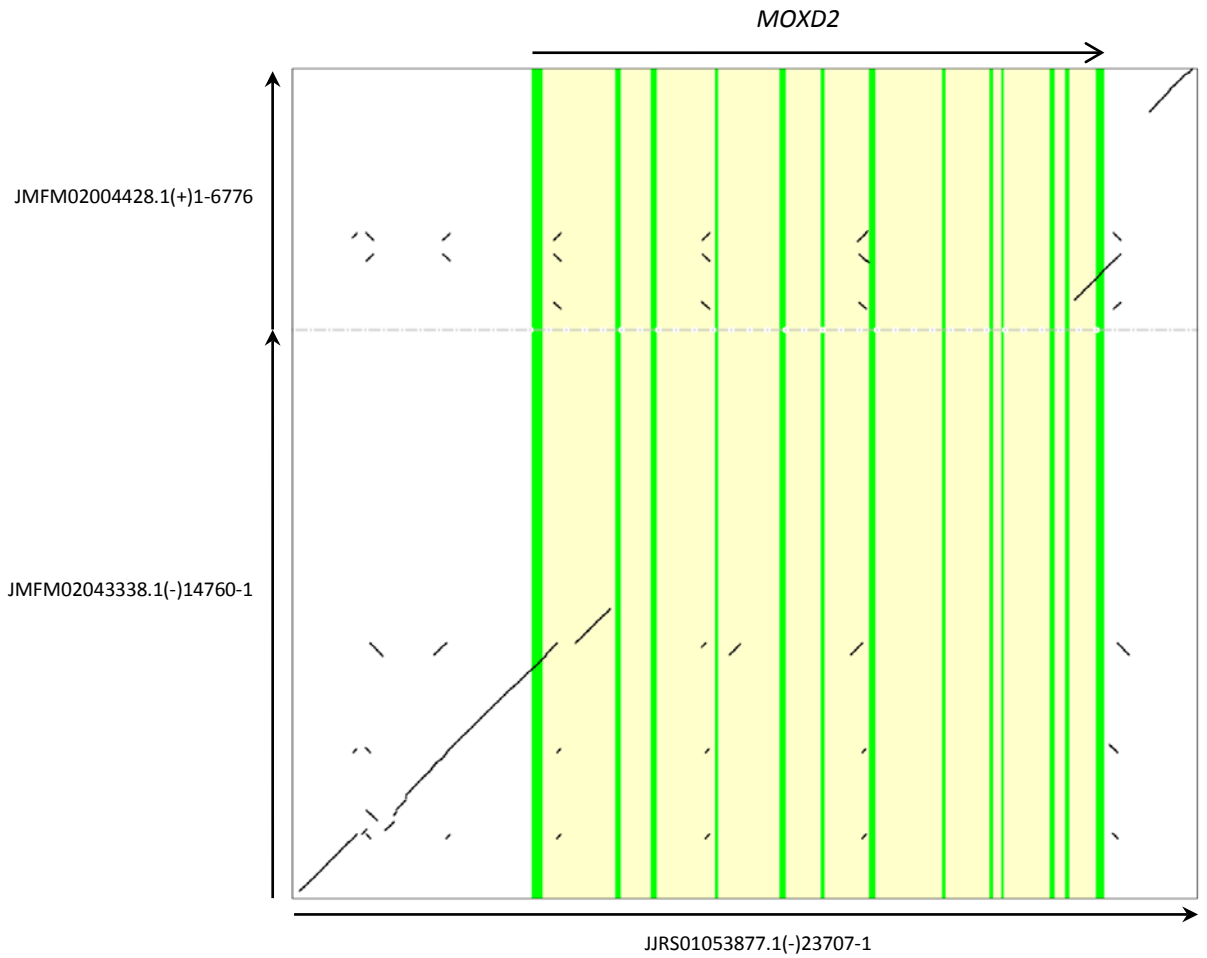
Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

No. 2
Order: Passeriformes
Family: Pipridae
Scientific name: *Manacus vitellinus*
Common name: Golden-collared manakin



Order: Passeriformes
Family: Acanthisittidae
Scientific name: *Acanthisitta chloris*
Common name: Rifleman

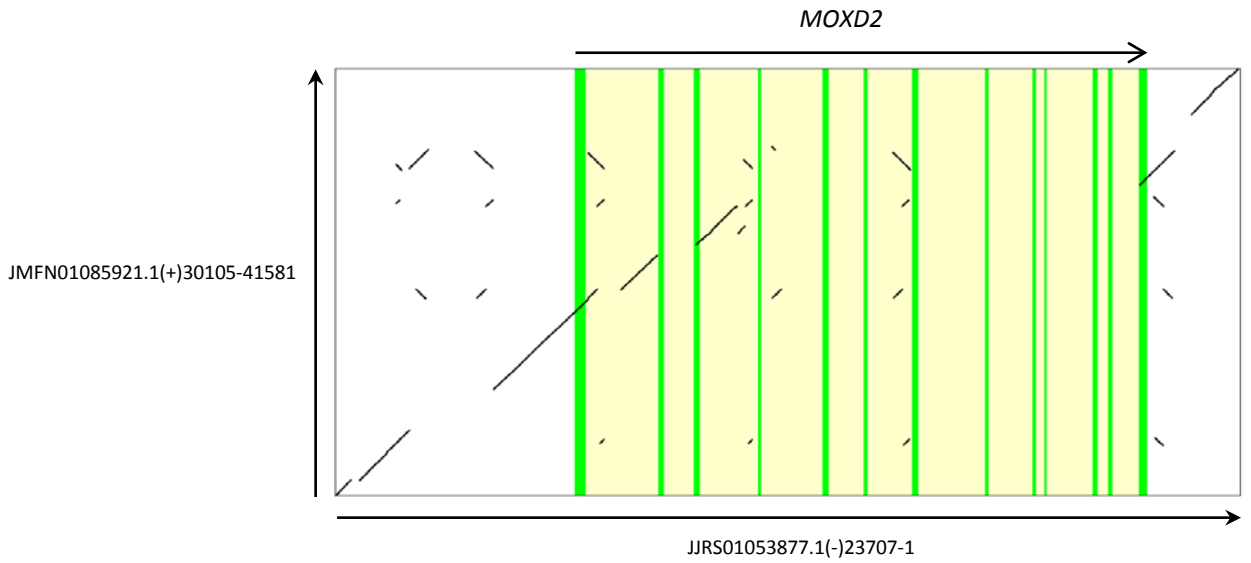
No. 3

Order: Passeriformes

Family: Corvidae

Scientific name: *Corvus brachyrhynchos*

Common name: American crow



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

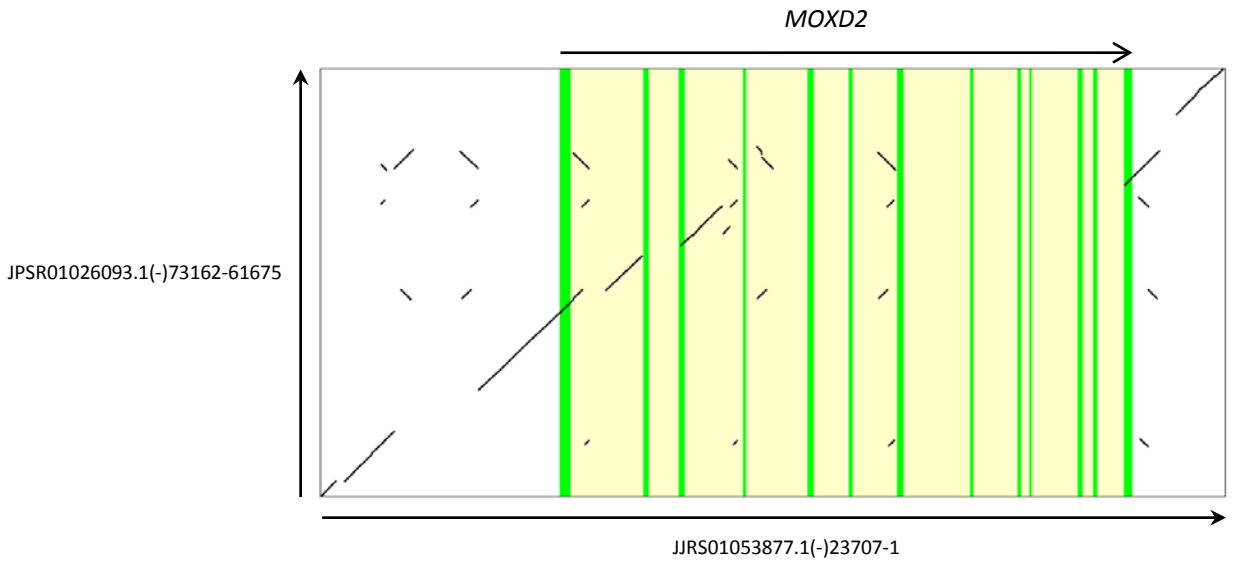
No. 4

Order: Passeriformes

Family: Corvidae

Scientific name: *Corvus cornix cornix*

Common name: Hooded crow



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

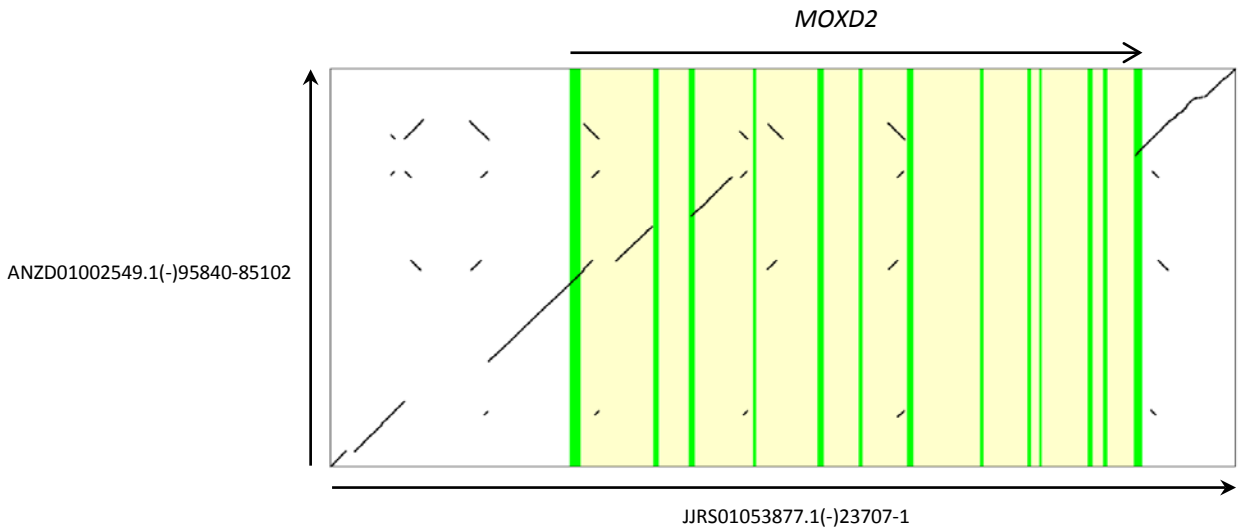
No. 5

Order: Passeriformes

Family: Paridae

Scientific name: *Pseudopodoces humilis*

Common name: Ground tit



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

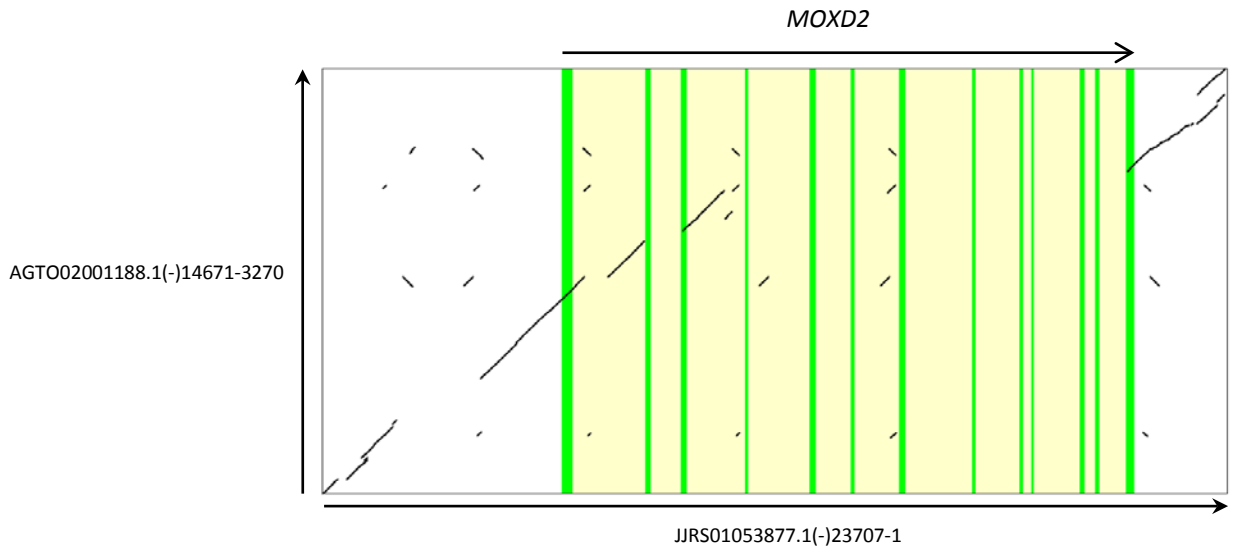
No. 6

Order: Passeriformes

Family: Muscicapidae

Scientific name: *Ficedula albicollis*

Common name: Collared flycatcher



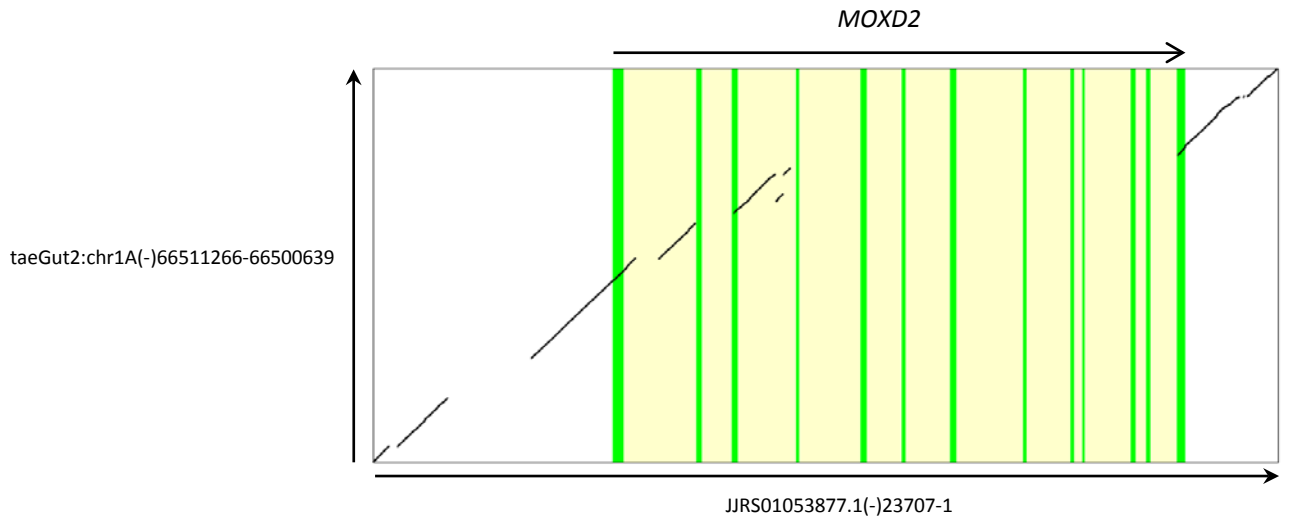
Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

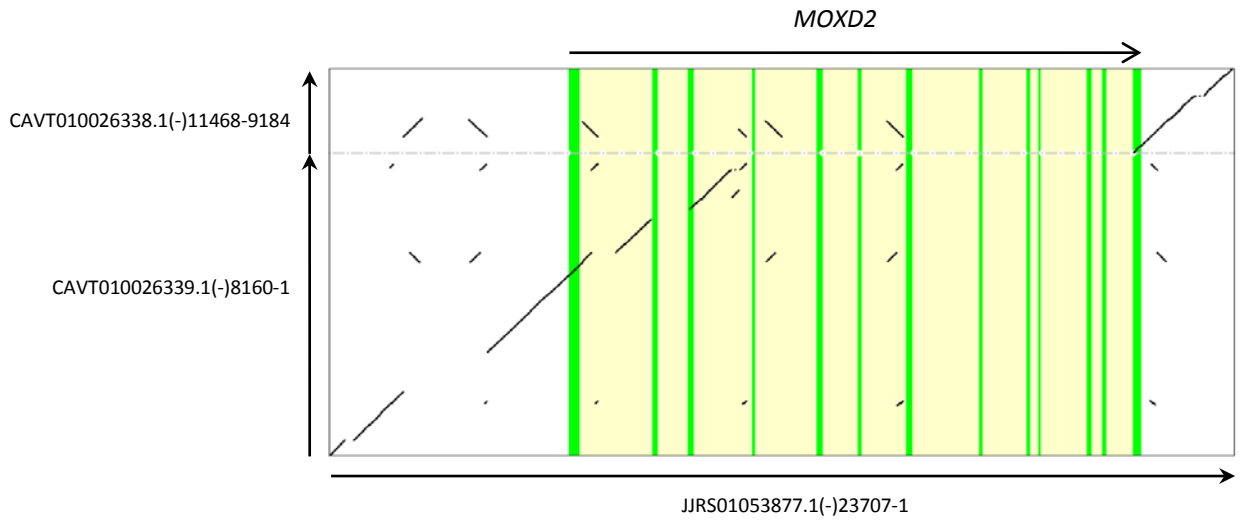
Common name: Rifleman

No. 7
Order: Passeriformes
Family: Estrildidae
Scientific name: *Taeniopygia guttata*
Common name: Zebra finch



Order: Passeriformes
Family: Acanthisittidae
Scientific name: *Acanthisitta chloris*
Common name: Rifleman

No. 8
Order: Passeriformes
Family: Fringillidae
Scientific name: *Serinus canaria*
Common name: Atlantic canary



Order: Passeriformes
Family: Acanthisittidae
Scientific name: *Acanthisitta chloris*
Common name: Rifleman

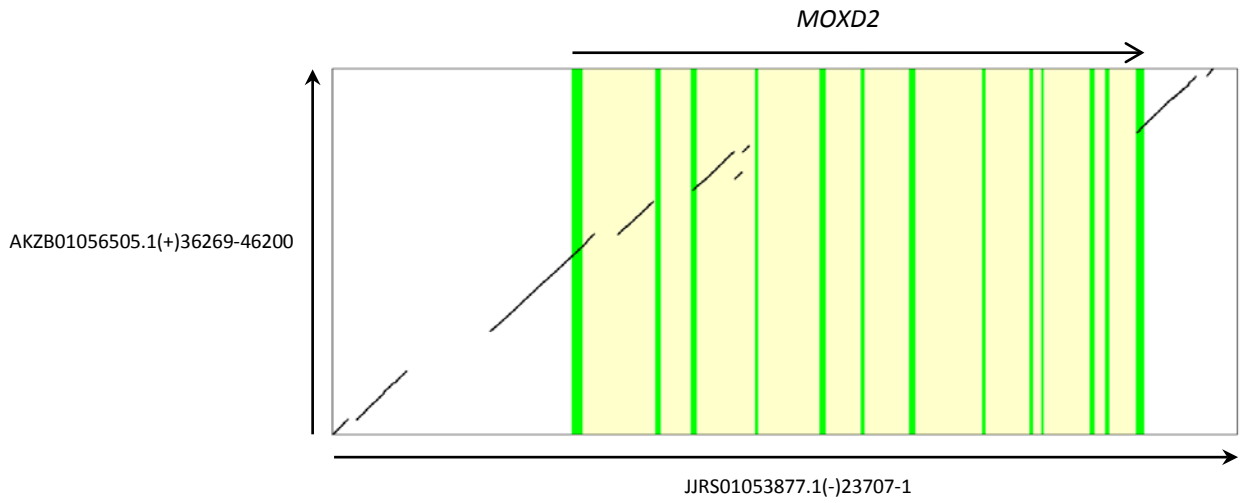
No. 9

Order: Passeriformes

Family: Emberizidae

Scientific name: *Geospiza fortis*

Common name: Medium ground finch



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

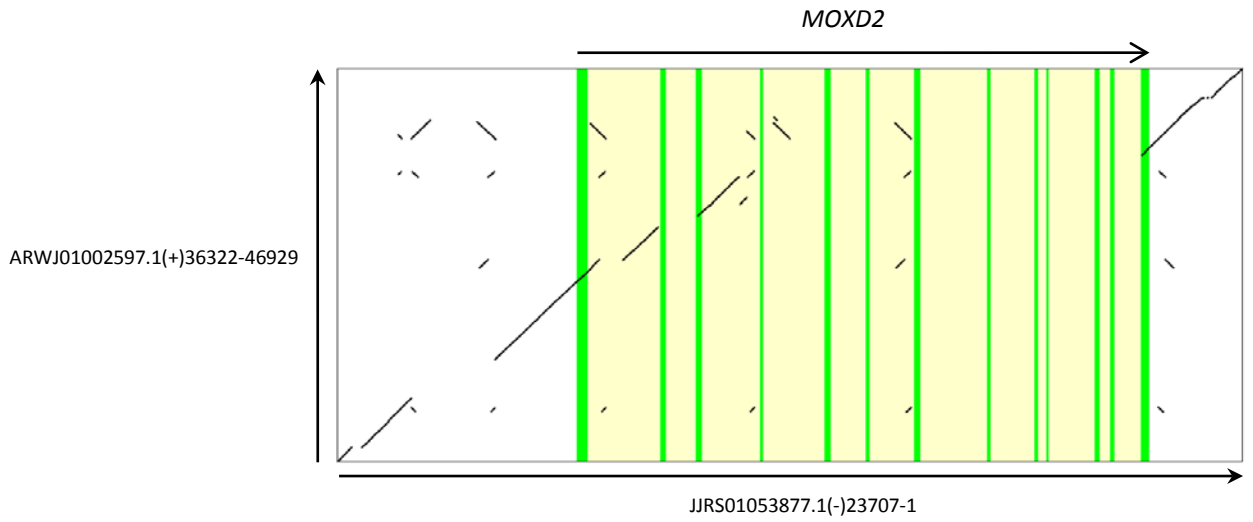
No. 10

Order: Passeriformes

Family: Emberizidae

Scientific name: *Zonotrichia albicollis*

Common name: White-throated sparrow



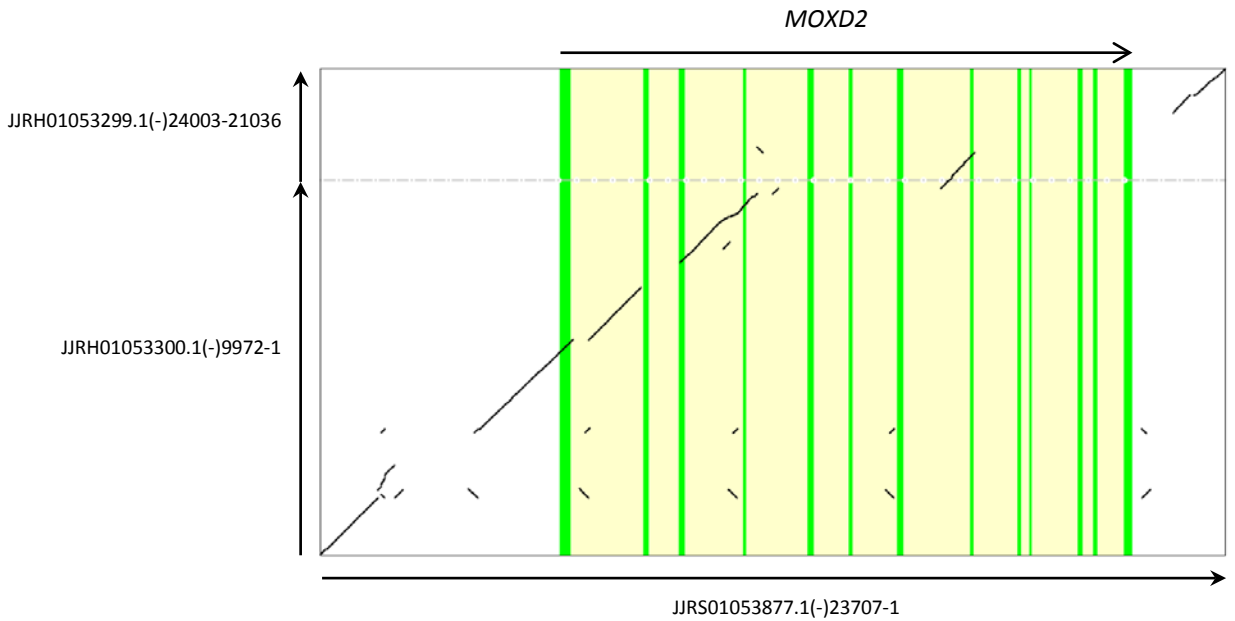
Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

No. 11
Order: Psittaciformes
Family: Psittacidae
Scientific name: *Nestor notabilis*
Common name: Kea



Order: Passeriformes
Family: Acanthisittidae
Scientific name: *Acanthisitta chloris*
Common name: Rifleman

No. 12

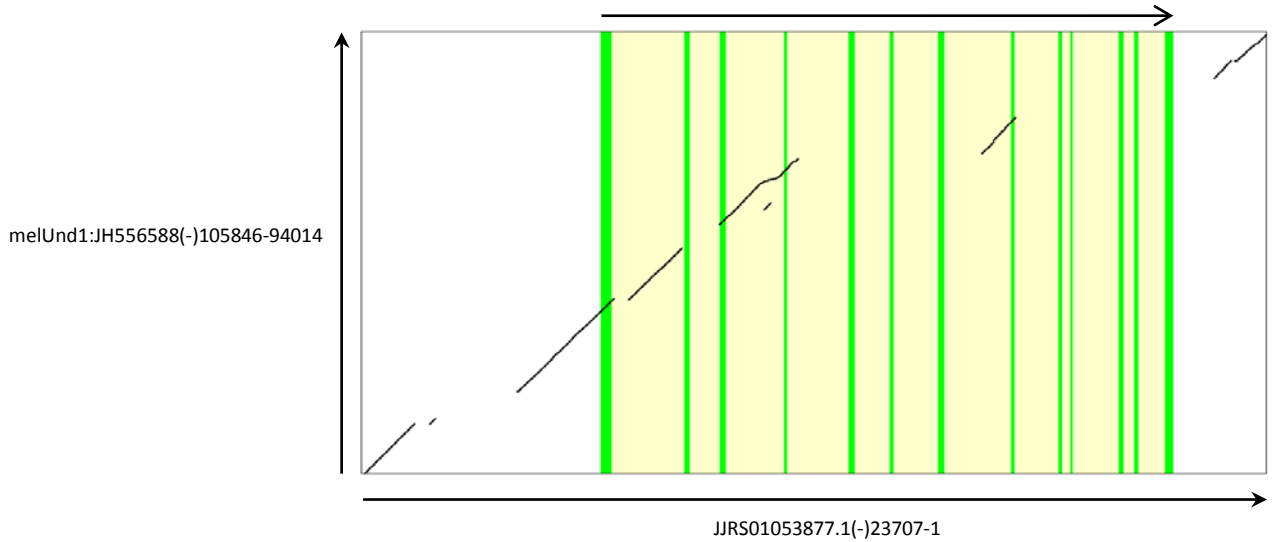
Order: Psittaciformes

Family: Psittacidae

Scientific name: *Melopsittacus undulatus*

Common name: Budgerigar

MOXD2



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

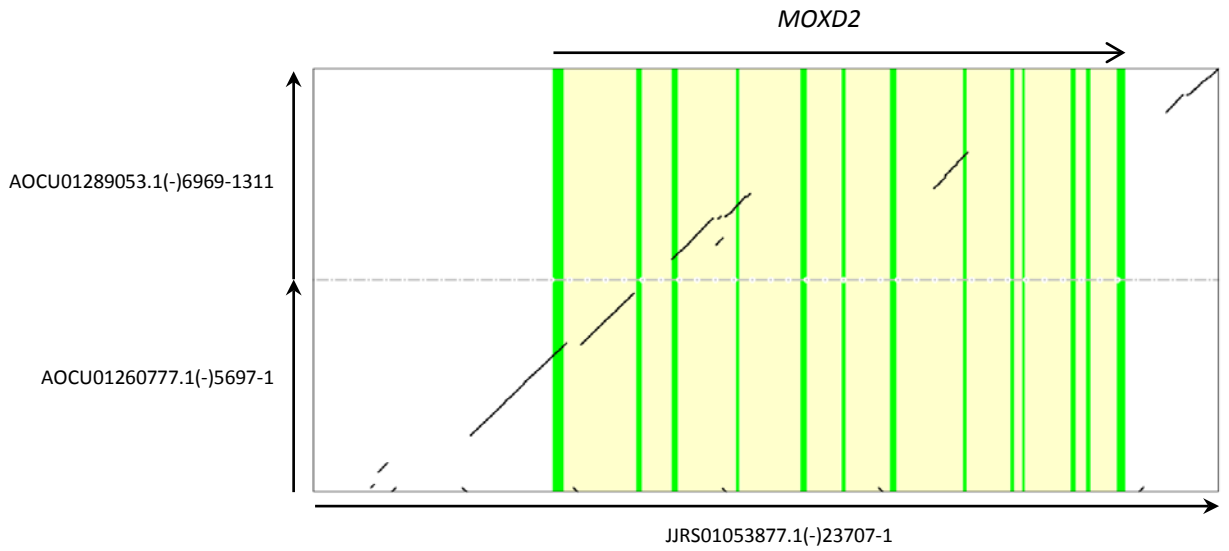
No. 13

Order: Psittaciformes

Family: Psittacidae

Scientific name: *Amazona vittata*

Common name: Puerto Rican Amazon



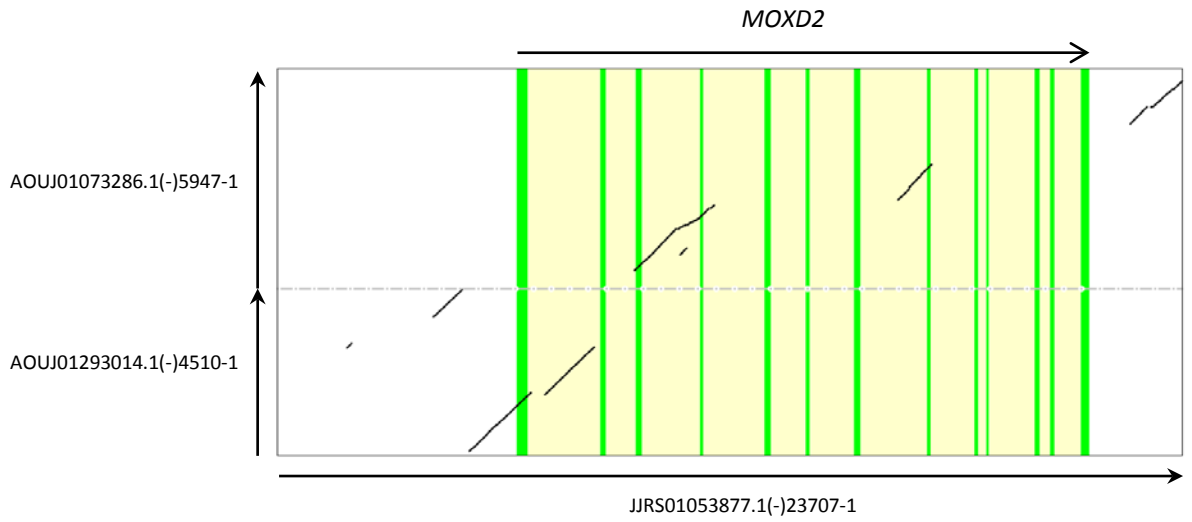
Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

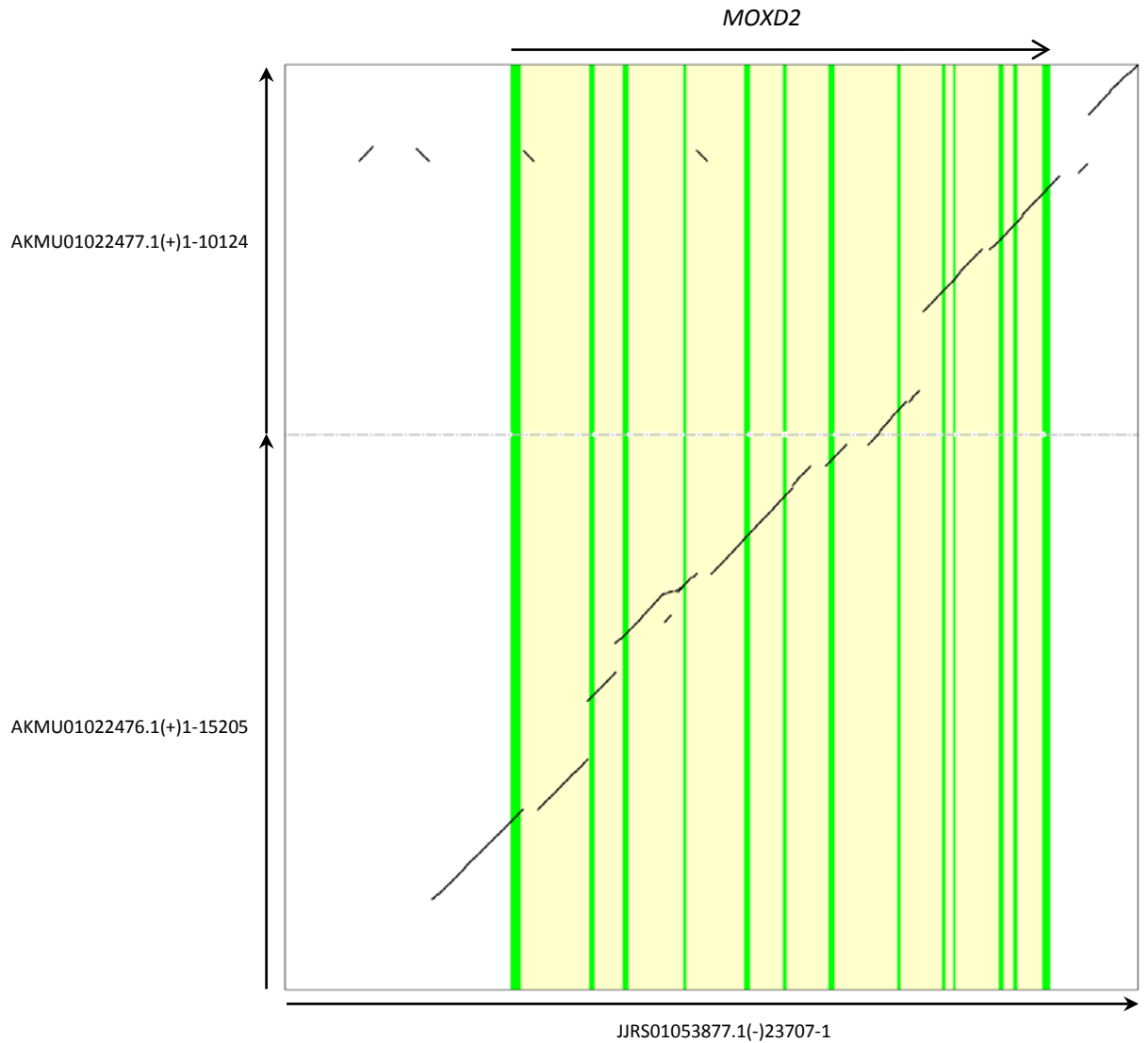
Common name: Rifleman

No. 14
Order: Psittaciformes
Family: Psittacidae
Scientific name: *Ara macao*
Common name: Scarlet macaw



Order: Passeriformes
Family: Acanthisittidae
Scientific name: *Acanthisitta chloris*
Common name: Rifleman

No. 15
Order: Falconiformes
Family: Falconidae
Scientific name: *Falco cherrug*
Common name: Saker falcon



Order: Passeriformes
Family: Acanthisittidae
Scientific name: *Acanthisitta chloris*
Common name: Rifleman

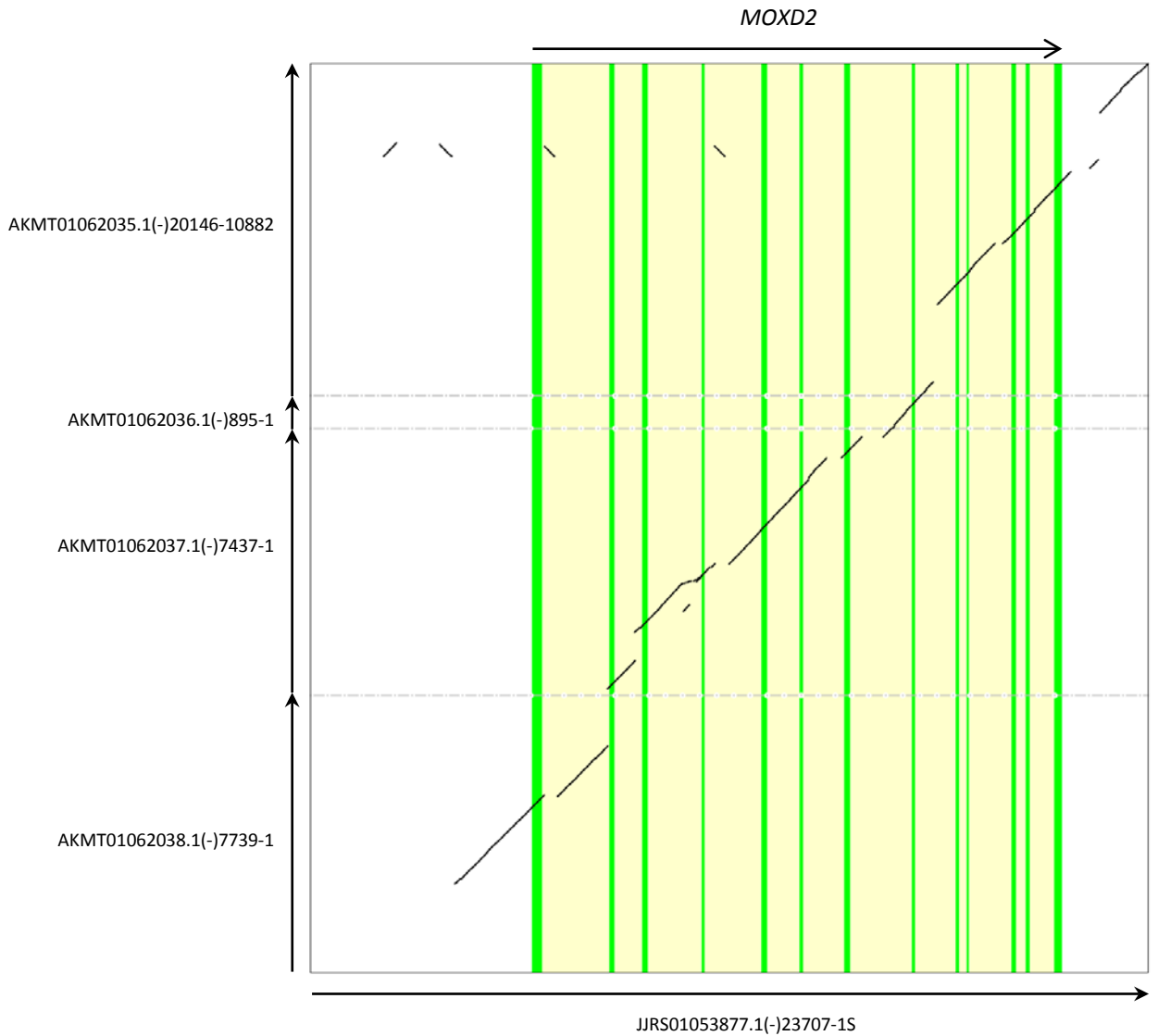
No. 16

Order: Falconiformes

Family: Falconidae

Scientific name: *Falco peregrinus*

Common name: Peregrine falcon



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

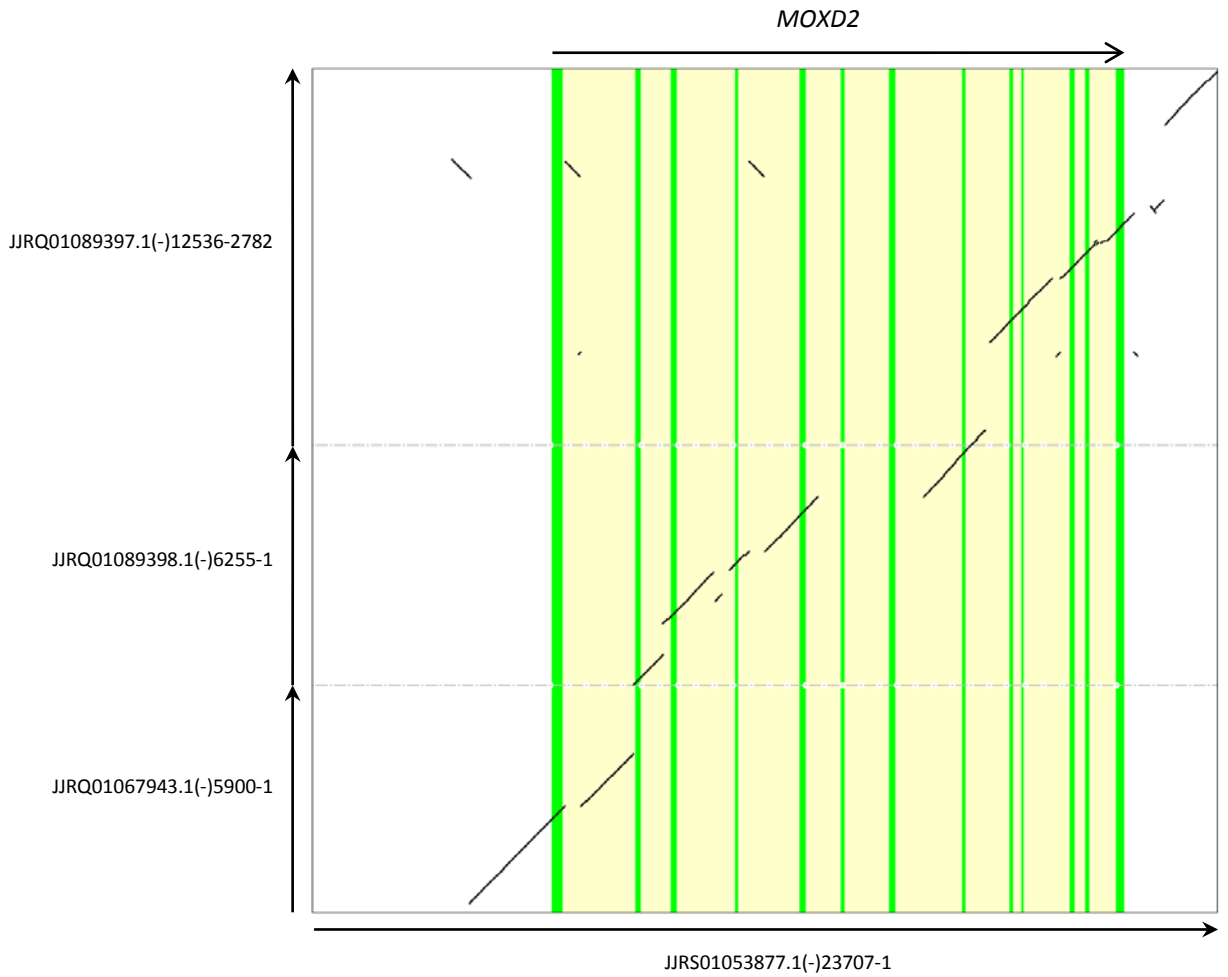
No. 17

Order: Cariamiformes

Family: Cariamidae

Scientific name: *Cariama cristata*

Common name: Red-legged seriema



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

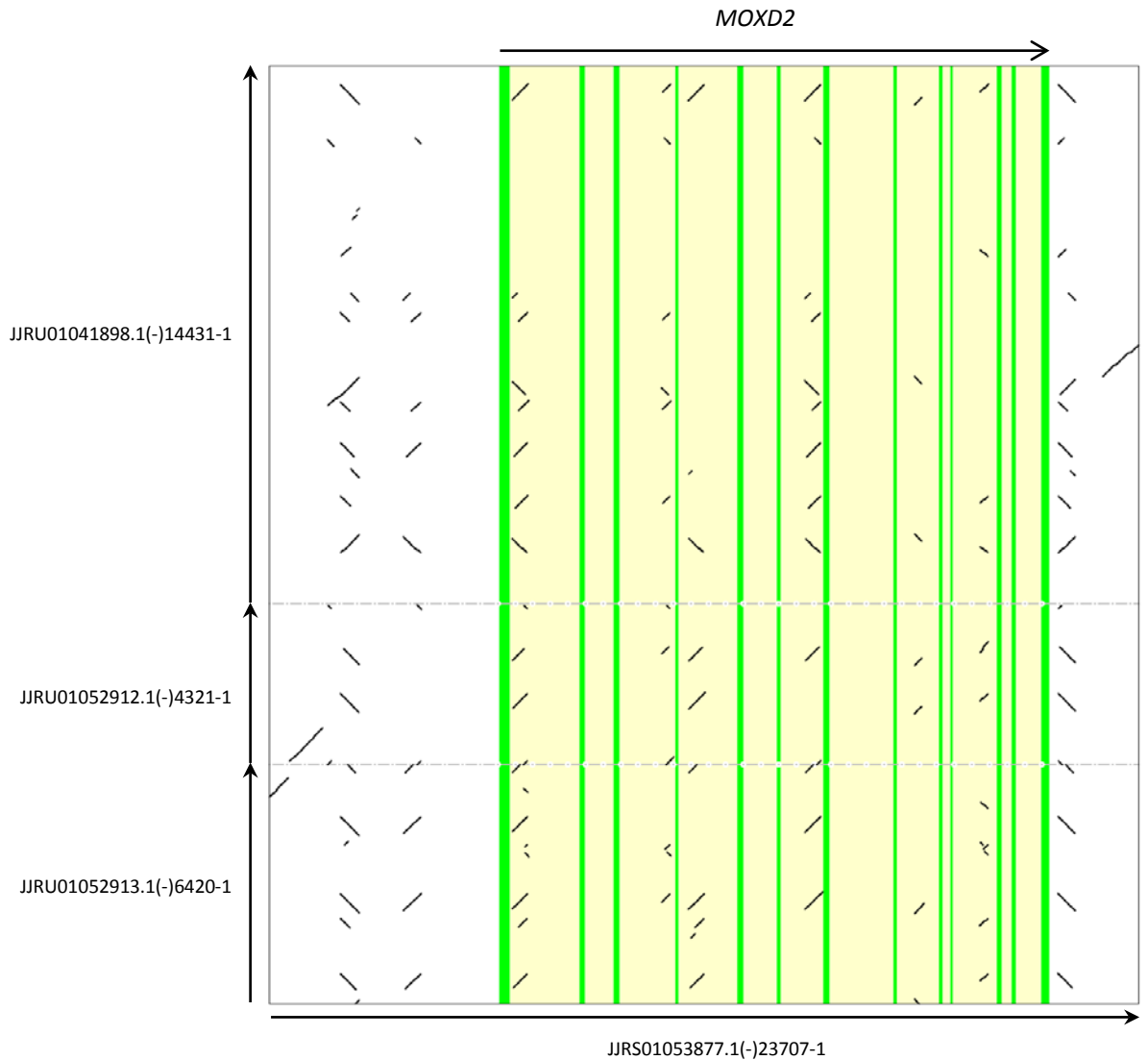
No. 18

Order: Piciformes

Family: Picidae

Scientific name: *Picoides pubescens*

Common name: Downy woodpecker



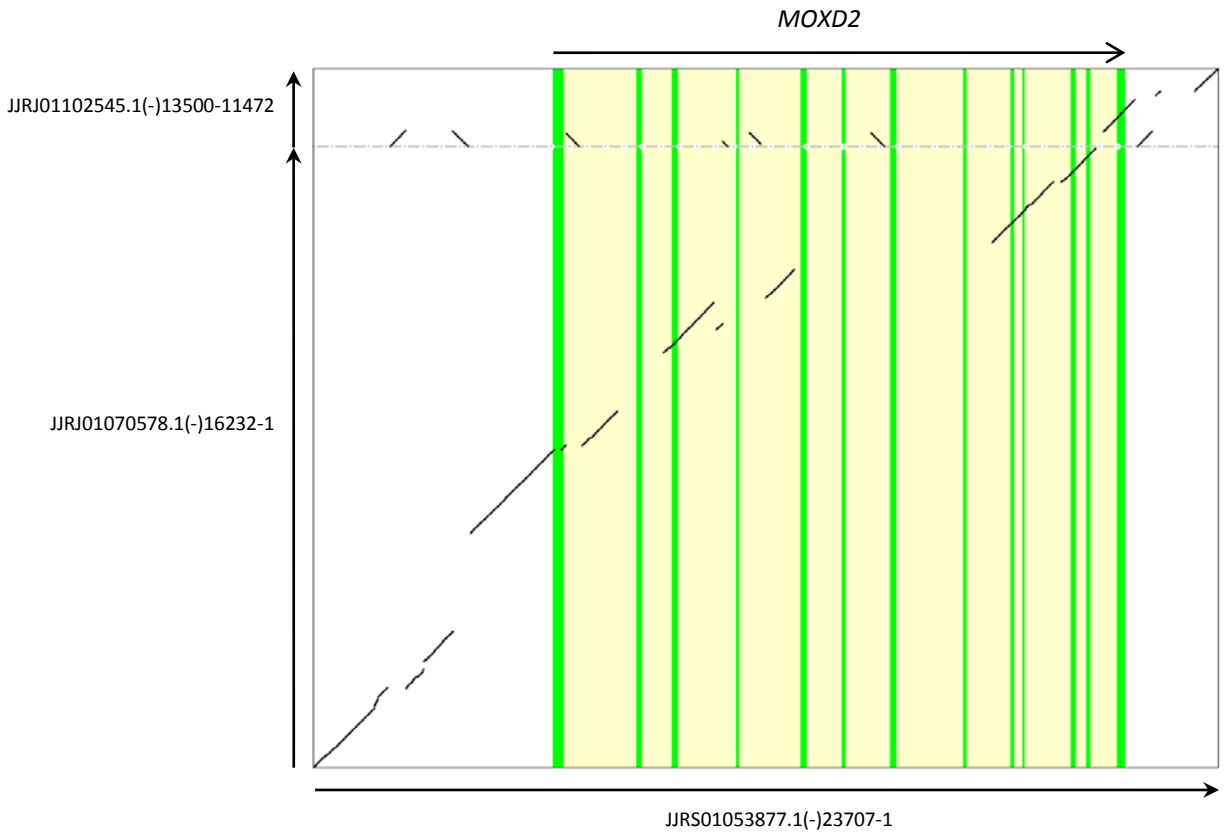
Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

No. 19
Order: Coraciiformes
Family: Meropidae
Scientific name: *Merops nubicus*
Common name: Northern carmine bee-eater



Order: Passeriformes
Family: Acanthisittidae
Scientific name: *Acanthisitta chloris*
Common name: Rifleman

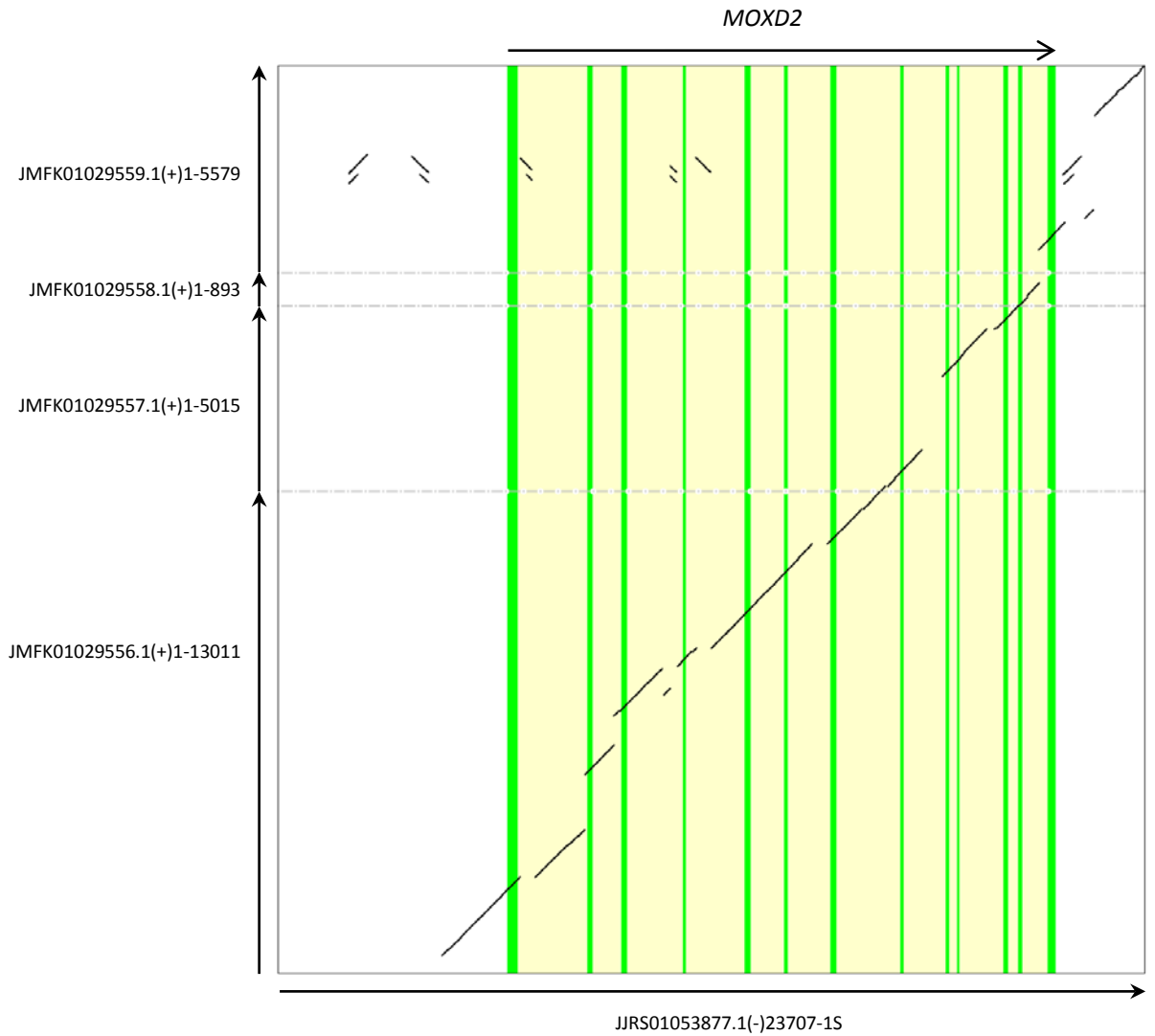
No. 20

Order: Bucerotiformes

Family: Bucerotidae

Scientific name: *Buceros rhinoceros silvestris*

Common name: Rhinoceros hornbill



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

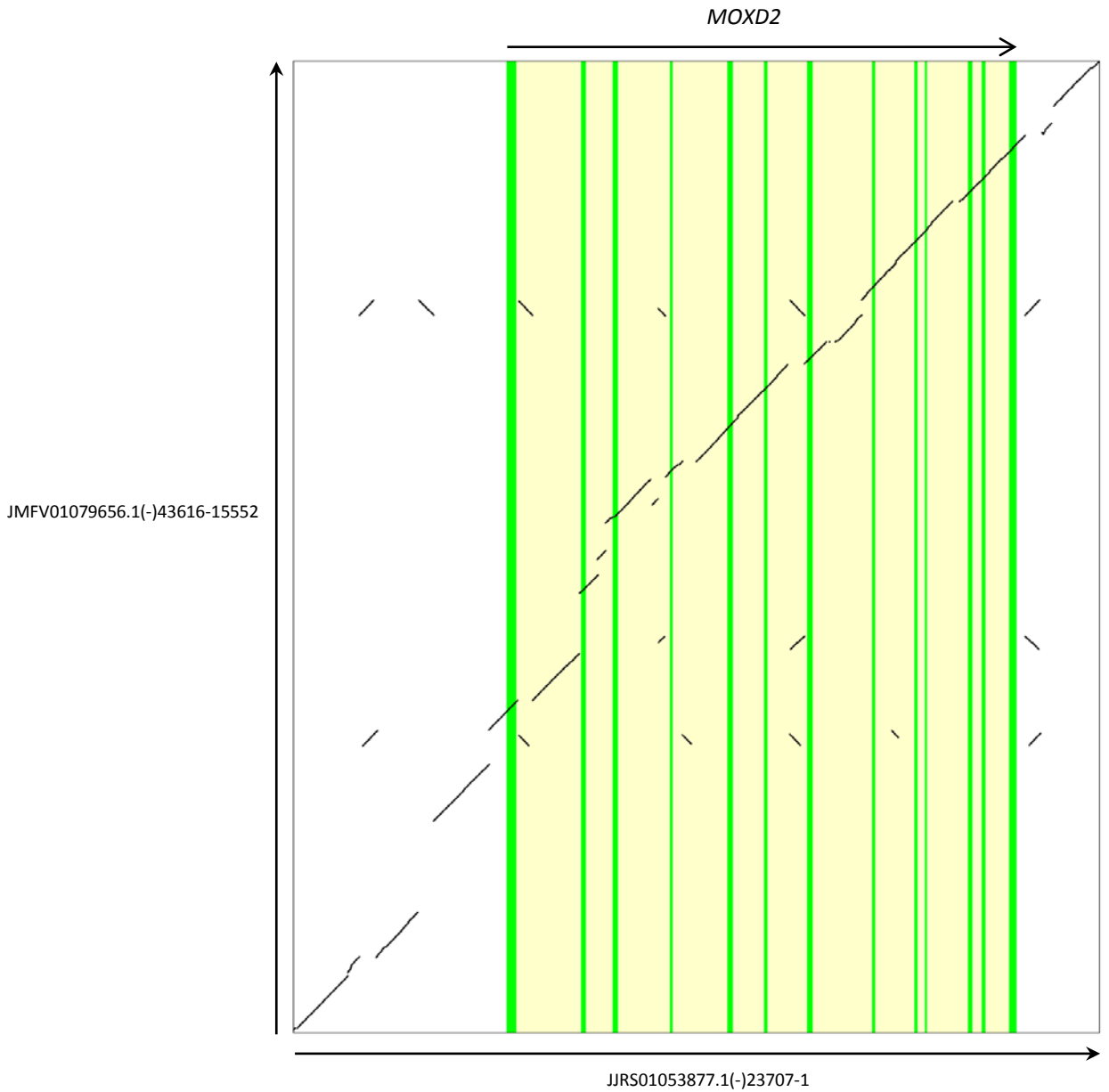
No. 21

Order: Trogoniformes

Family: Trogonidae

Scientific name: *Apaloderma vittatum*

Common name: Bar-tailed trogon



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

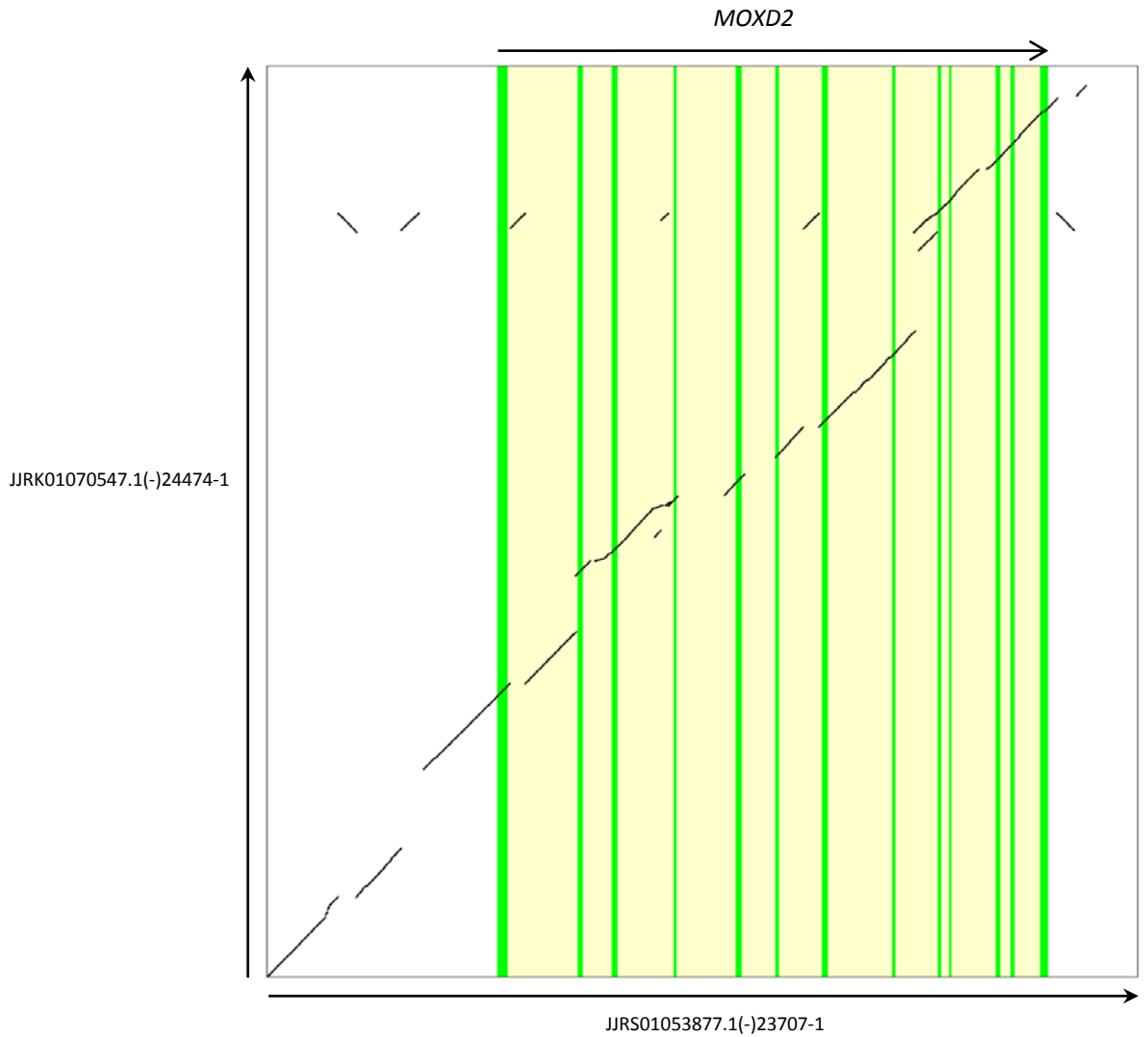
No. 22

Order: Leptosomiformes

Family: Leptosomidae

Scientific name: *Leptosomus discolor*

Common name: Cuckoo roller



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

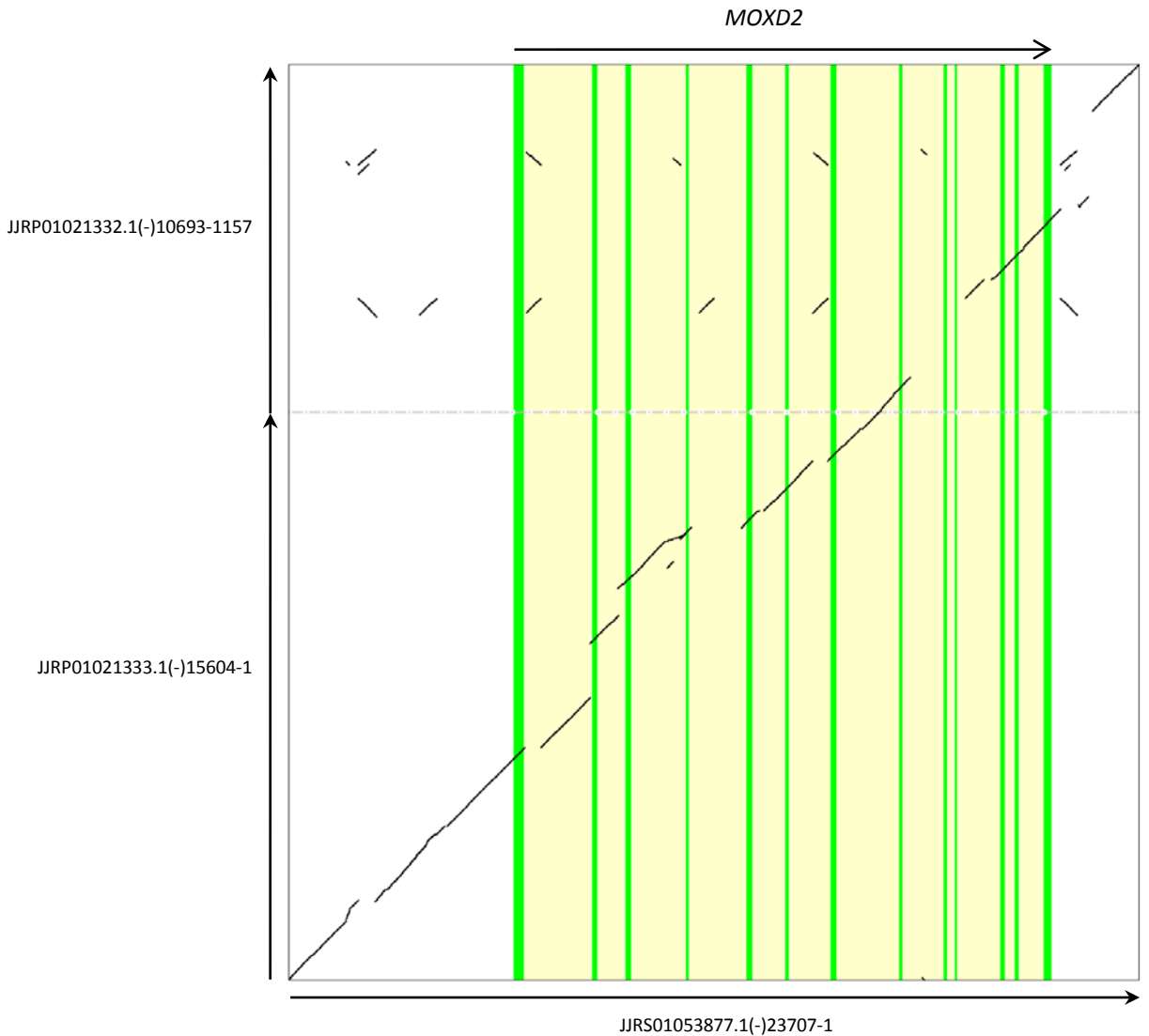
No. 23

Order: Coliiformes

Family: Coliidae

Scientific name: *Colius striatus*

Common name: Speckled mousebird



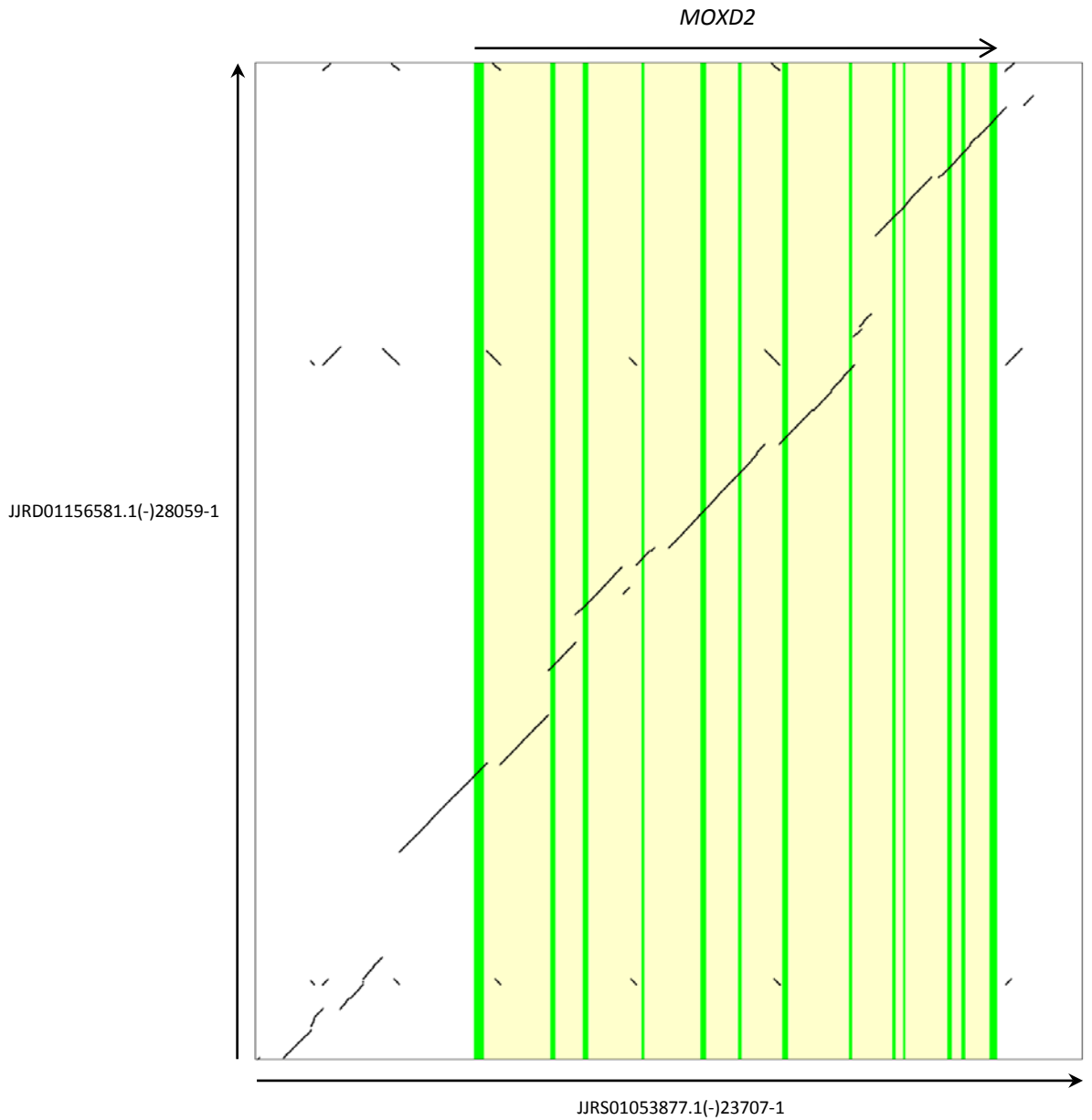
Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

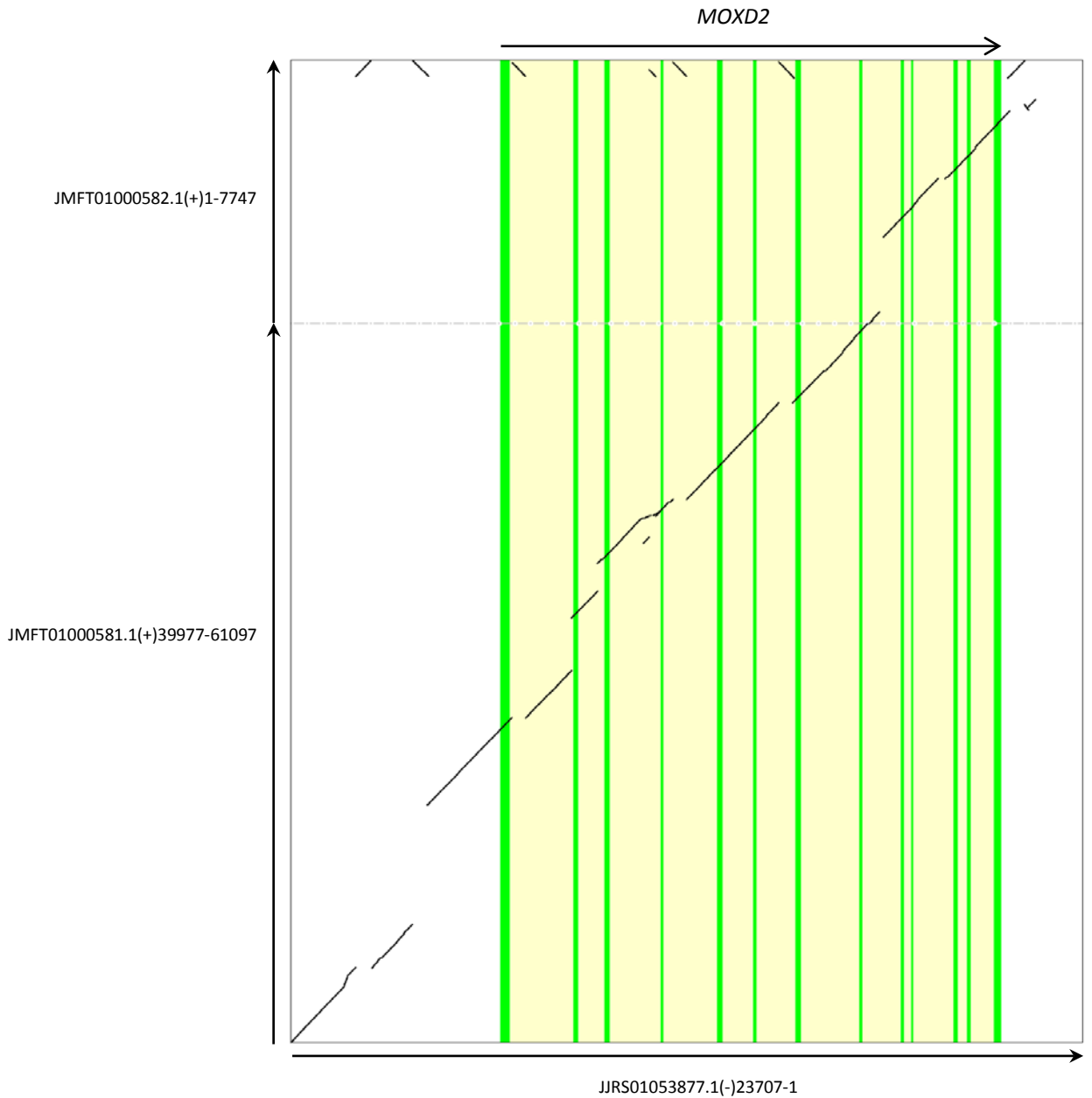
Common name: Rifleman

No. 24
Order: Strigiformes
Family: Tytonidae
Scientific name: *Tyto alba*
Common name: Barn owl



Order: Passeriformes
Family: Acanthisittidae
Scientific name: *Acanthisitta chloris*
Common name: Rifleman

No. 25
Order: Accipitriformes
Family: Cathartidae
Scientific name: *Cathartes aura*
Common name: Turkey vulture



Order: Passeriformes
Family: Acanthisittidae
Scientific name: *Acanthisitta chloris*
Common name: Rifleman

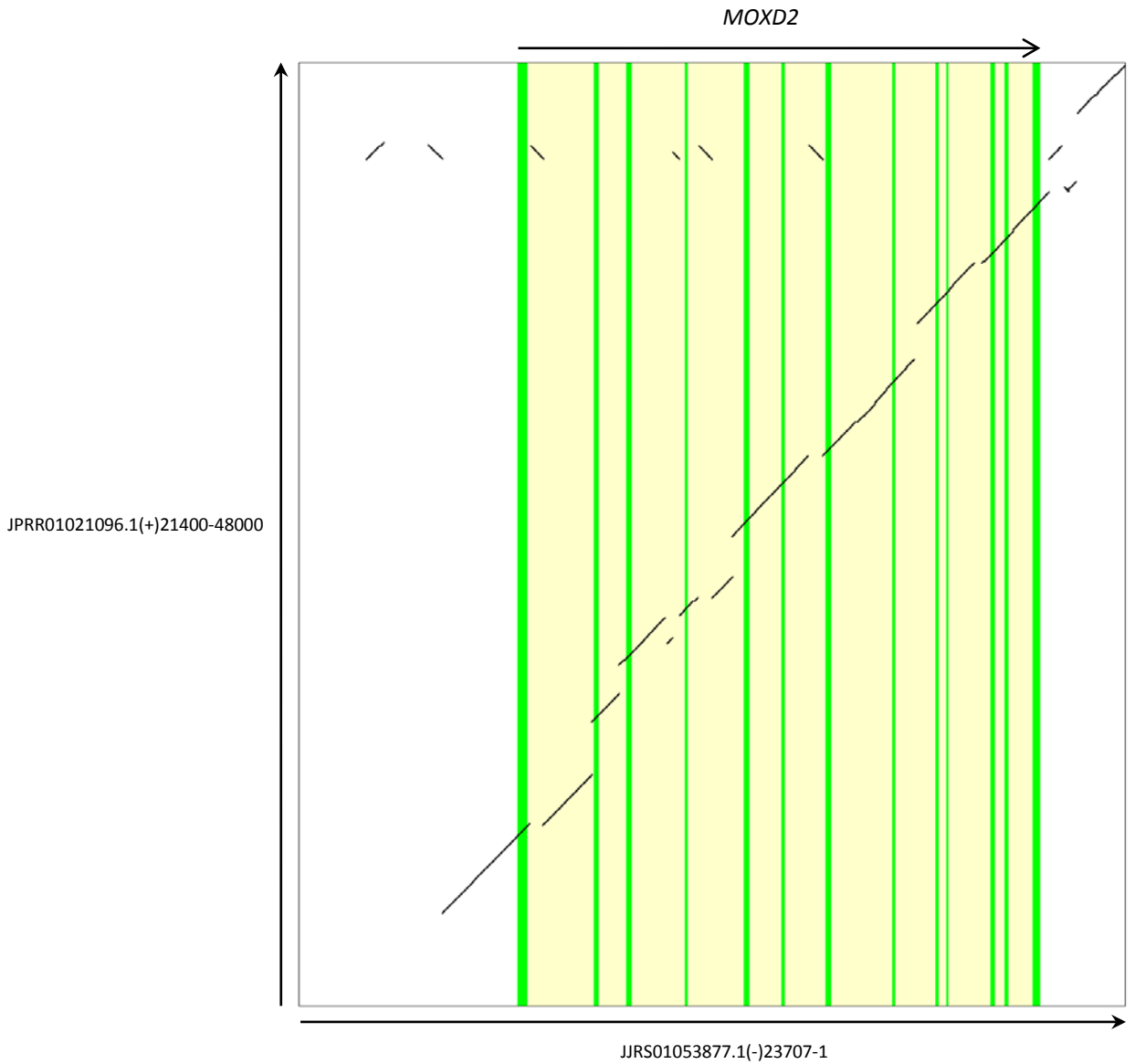
No. 26

Order: Accipitriformes

Family: Accipitridae

Scientific name: *Haliaeetus albicilla*

Common name: White-tailed eagle



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

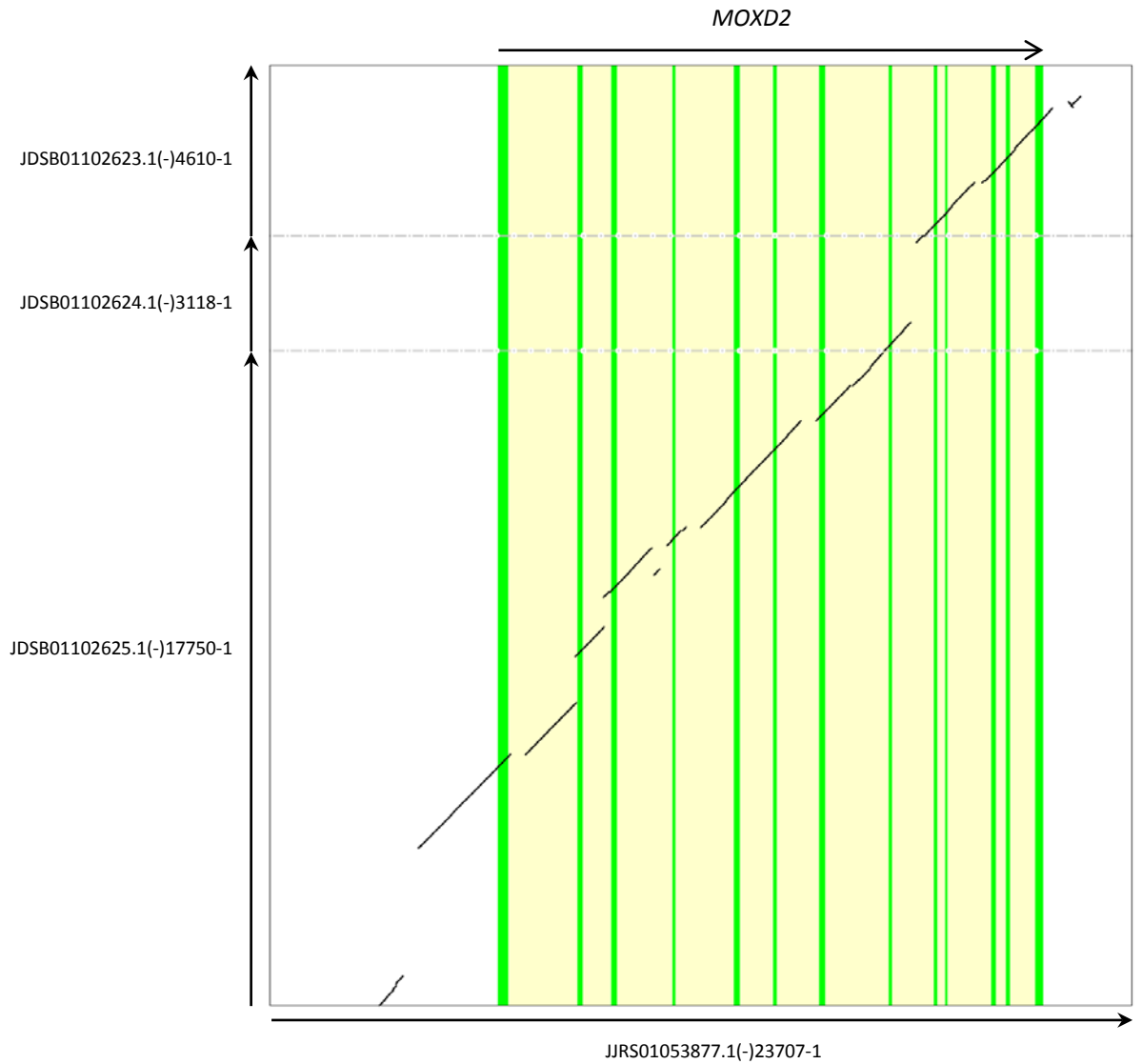
No. 27

Order: Accipitriformes

Family: Accipitridae

Scientific name: *Aquila chrysaetos canadensis*

Common name: Golden eagle



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

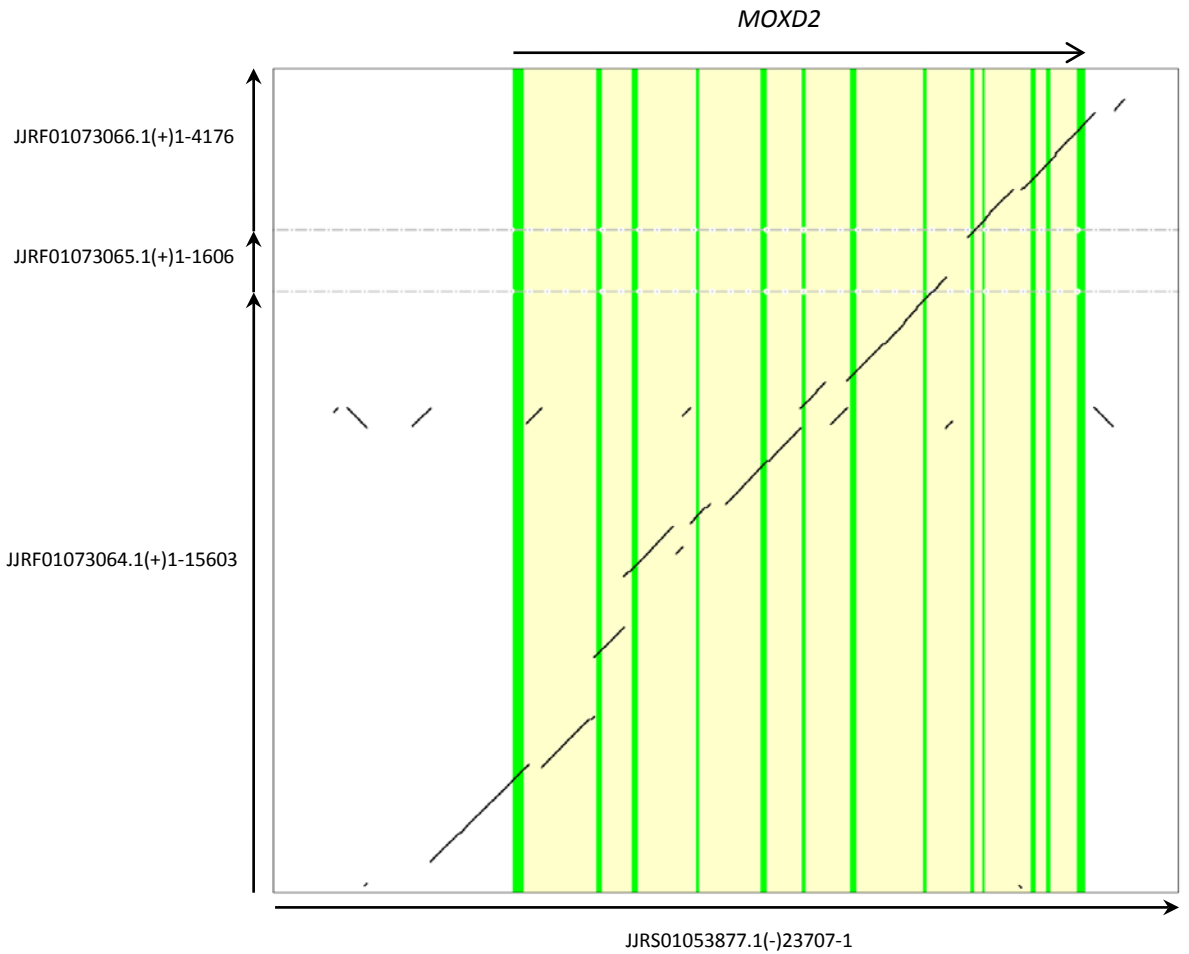
No. 28

Order: Phaethontiformes

Family: Phaethontidae

Scientific name: *Phaethon lepturus*

Common name: White-tailed tropicbird



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

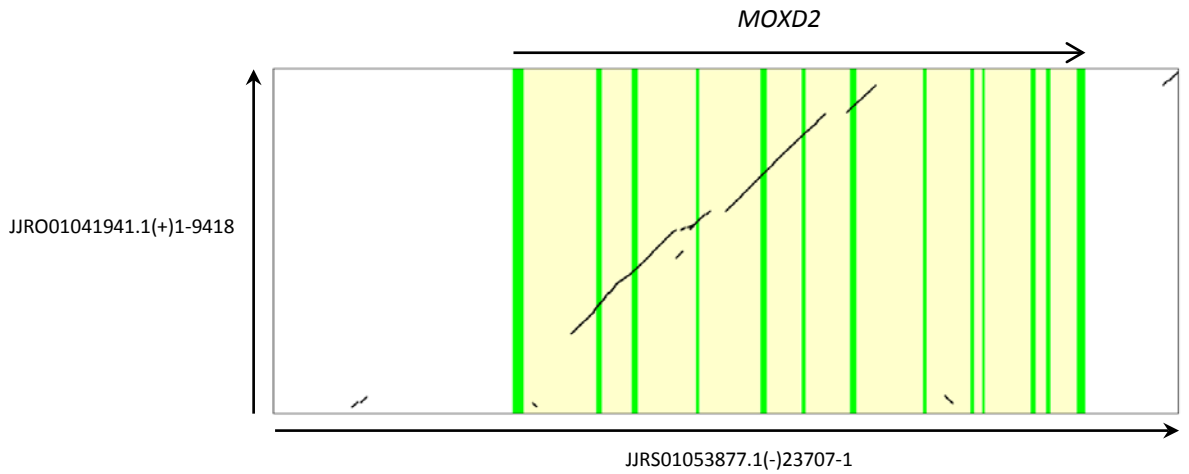
No. 29

Order: Eurypygiformes

Family: Eurypygidae

Scientific name: *Eurypyga helias*

Common name: Sunbittern



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

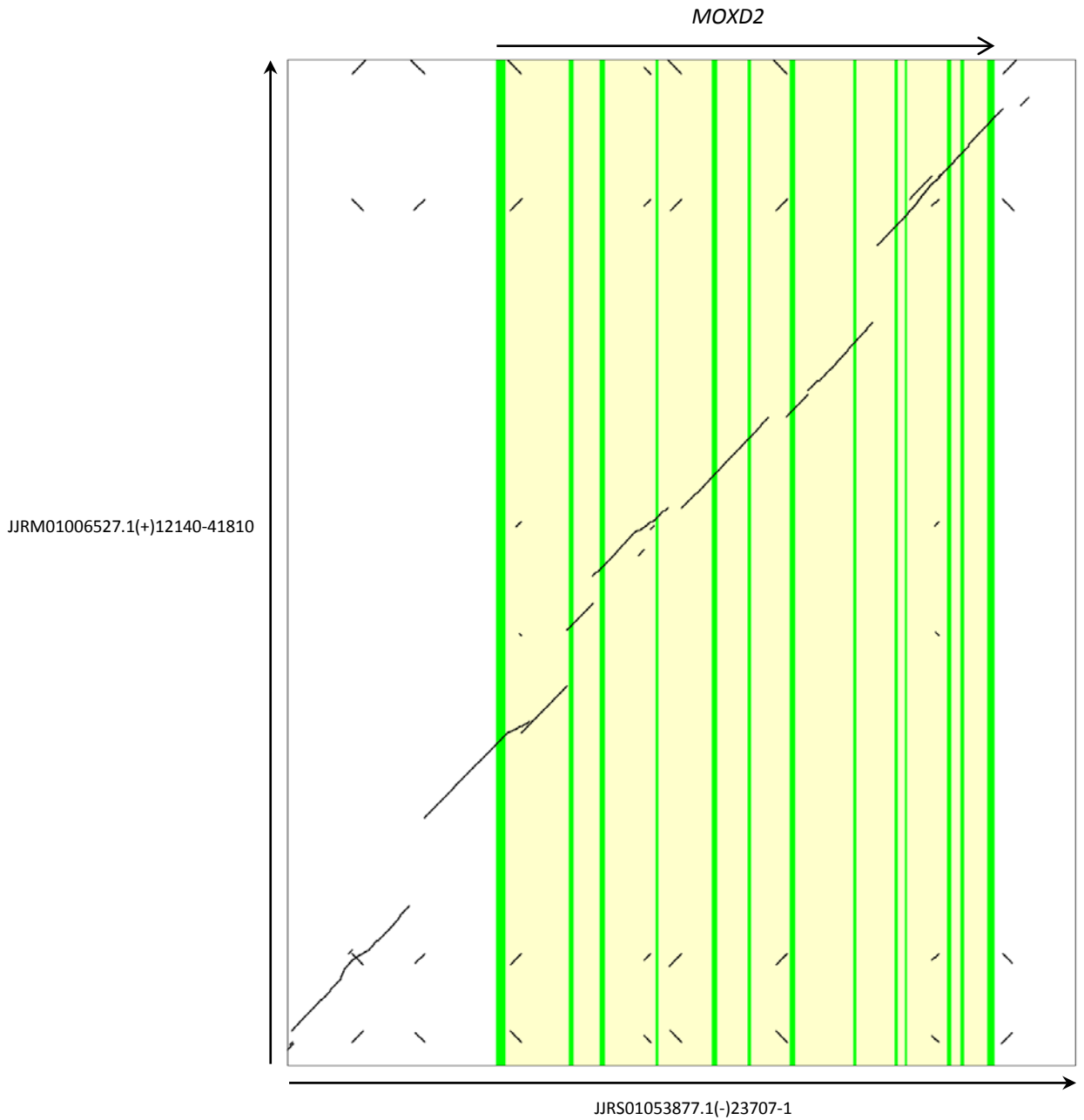
No. 30

Order: Gaviiformes

Family: Gaviidae

Scientific name: *Gavia stellata*

Common name: Red-throated loon



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

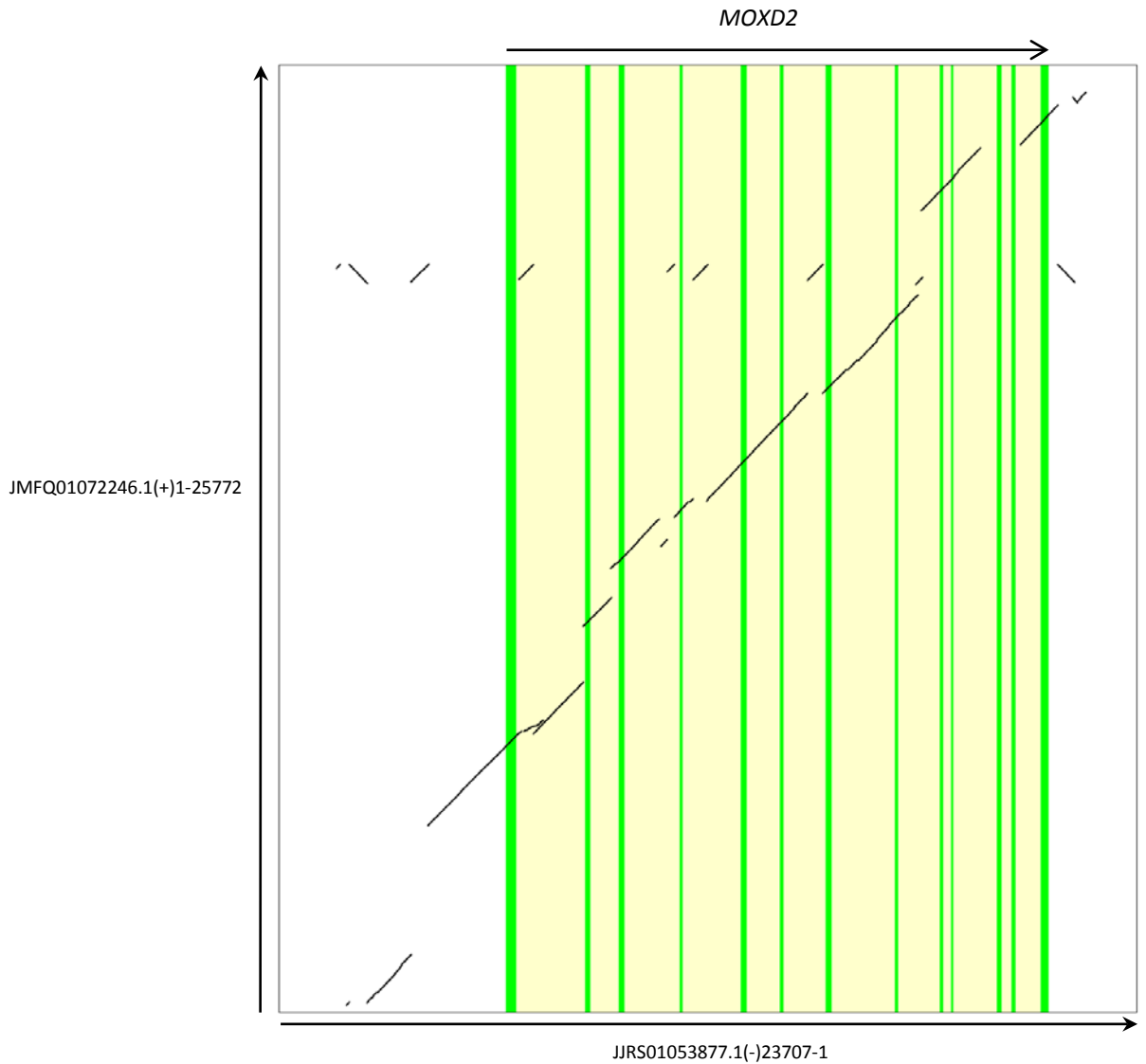
No. 31

Order: Sphenisciformes

Family: Spheniscidae

Scientific name: *Aptenodytes forsteri*

Common name: Emperor penguin



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

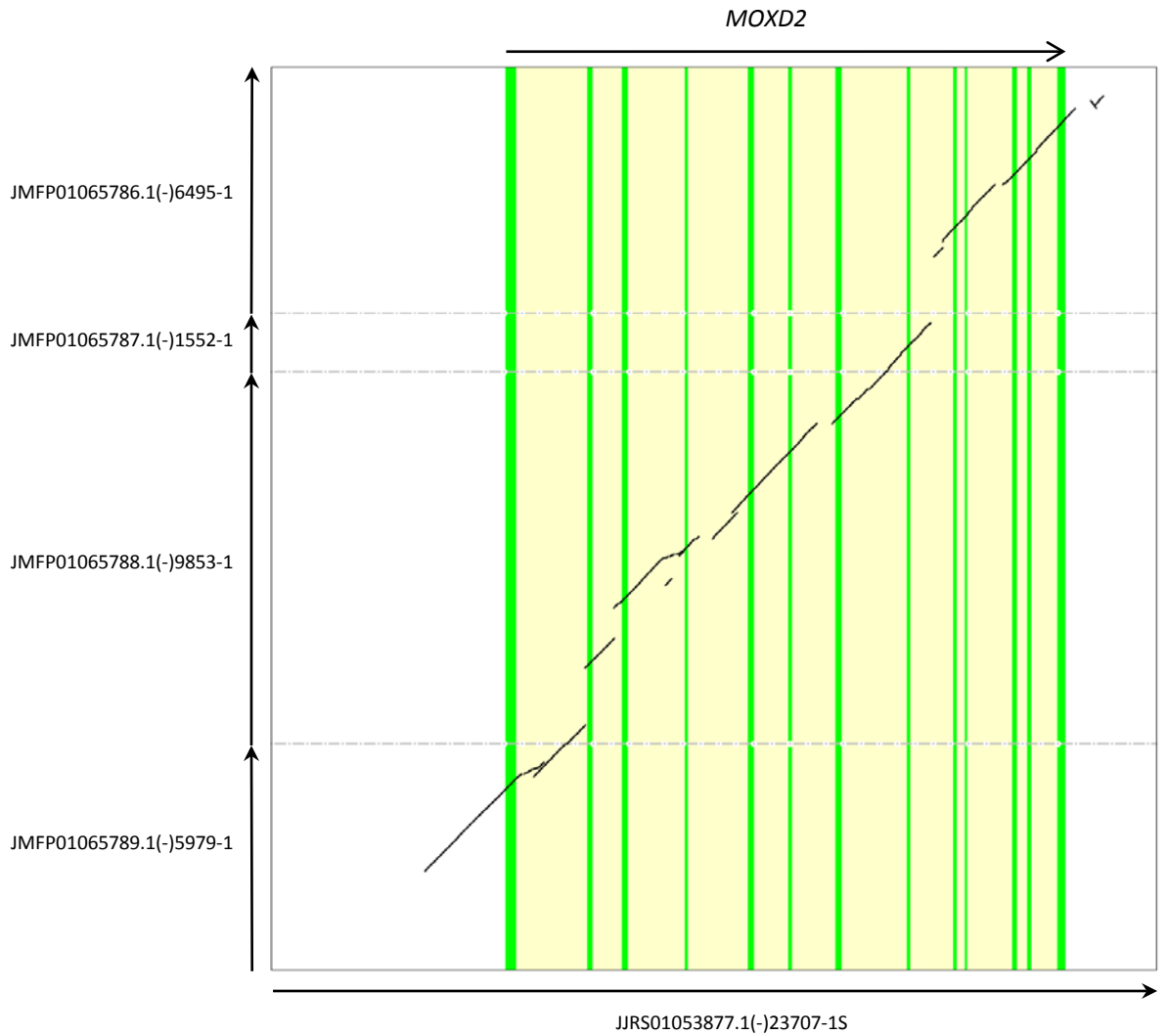
No. 32

Order: Sphenisciformes

Family: Spheniscidae

Scientific name: *Pygoscelis adeliae*

Common name: Adelie Penguin



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

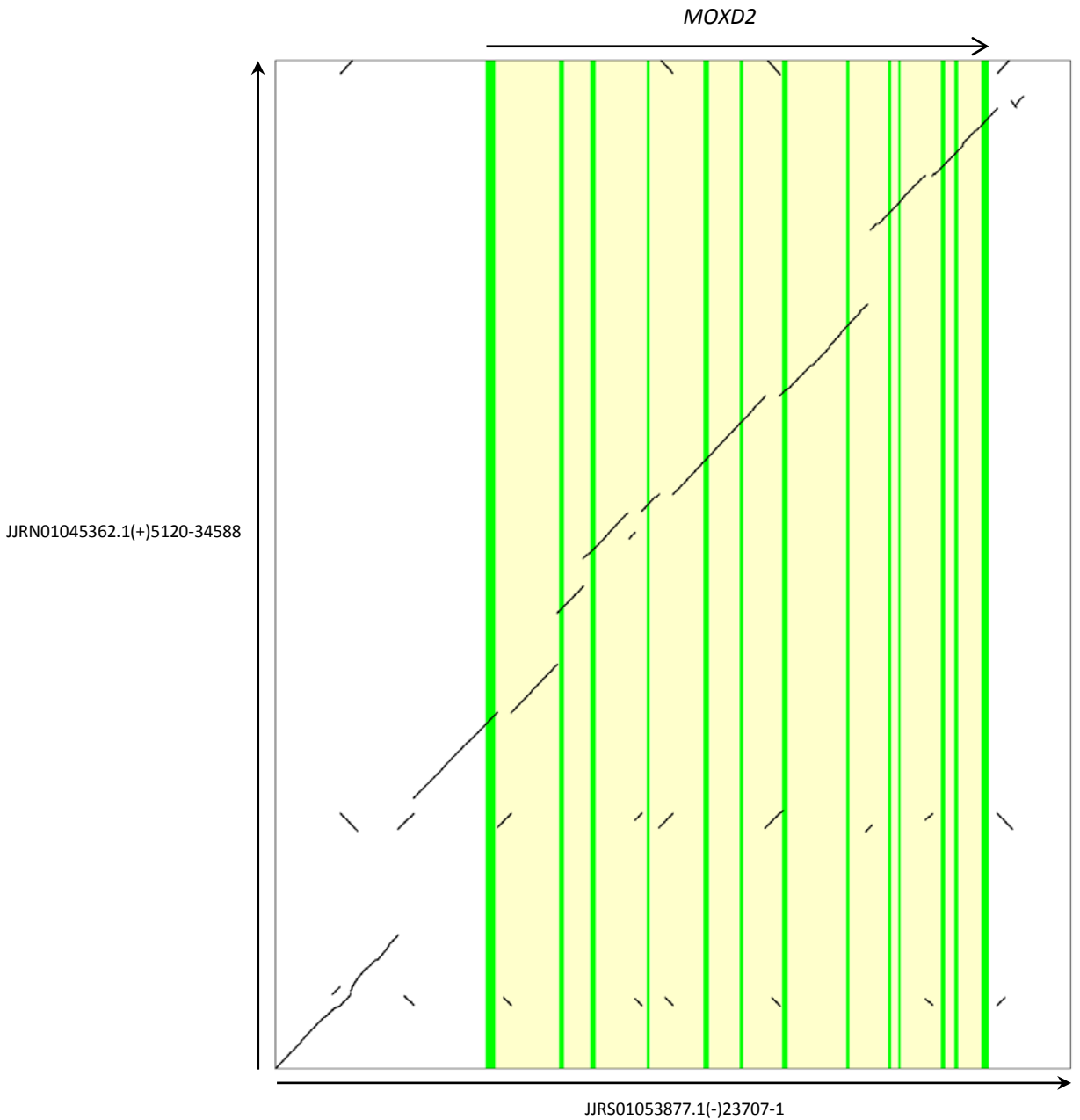
No. 33

Order: Procellariiformes

Family: Procellariidae

Scientific name: *Fulmarus glacialis*

Common name: Northern fulmar



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

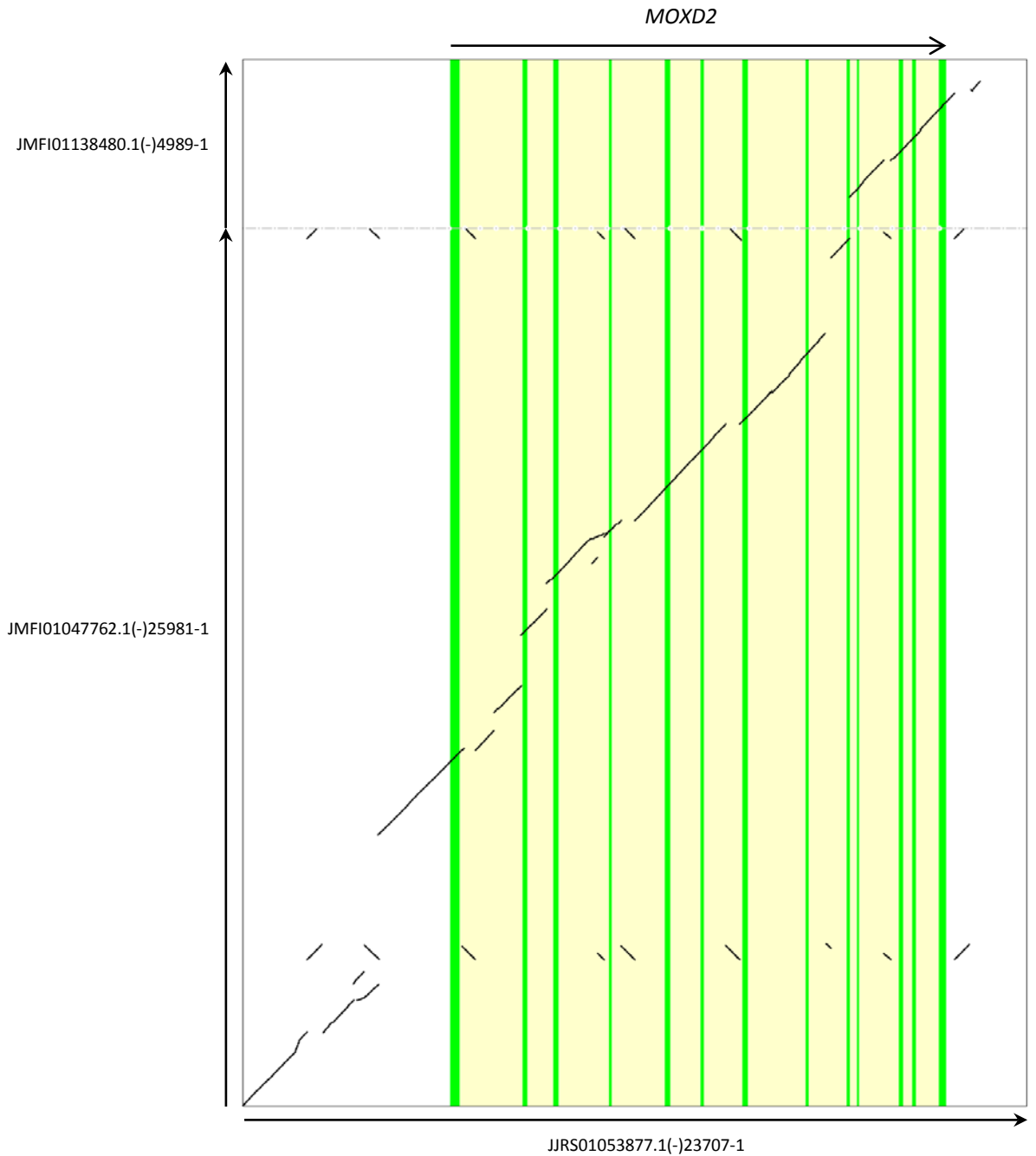
No. 34

Order: Suliformes

Family: Phalacrocoracidae

Scientific name: *Phalacrocorax carbo*

Common name: Great cormorant



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

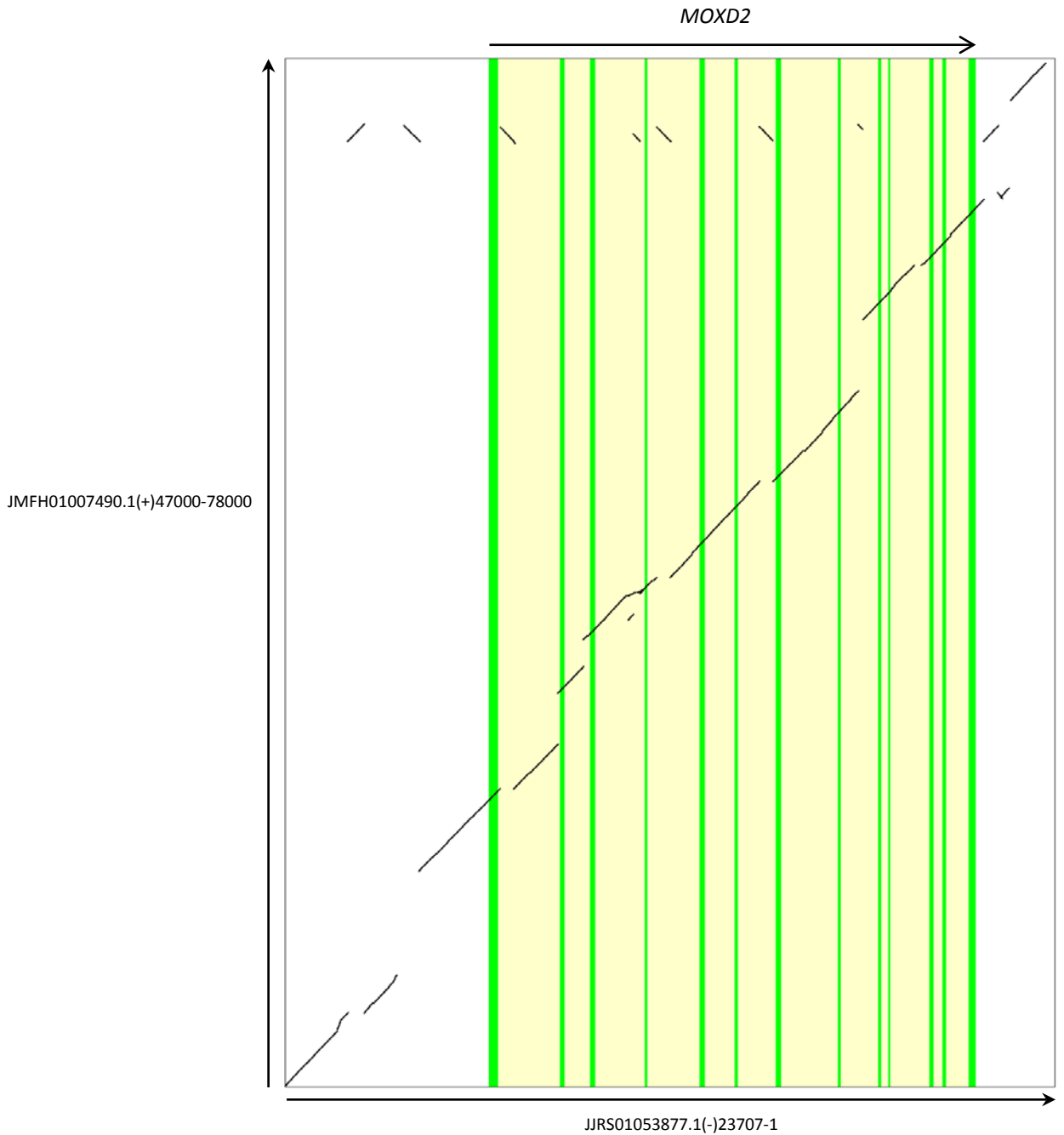
No. 35

Order: Pelecaniformes

Family: Threskiornithidae

Scientific name: *Nipponia nippon*

Common name: Crested ibis



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

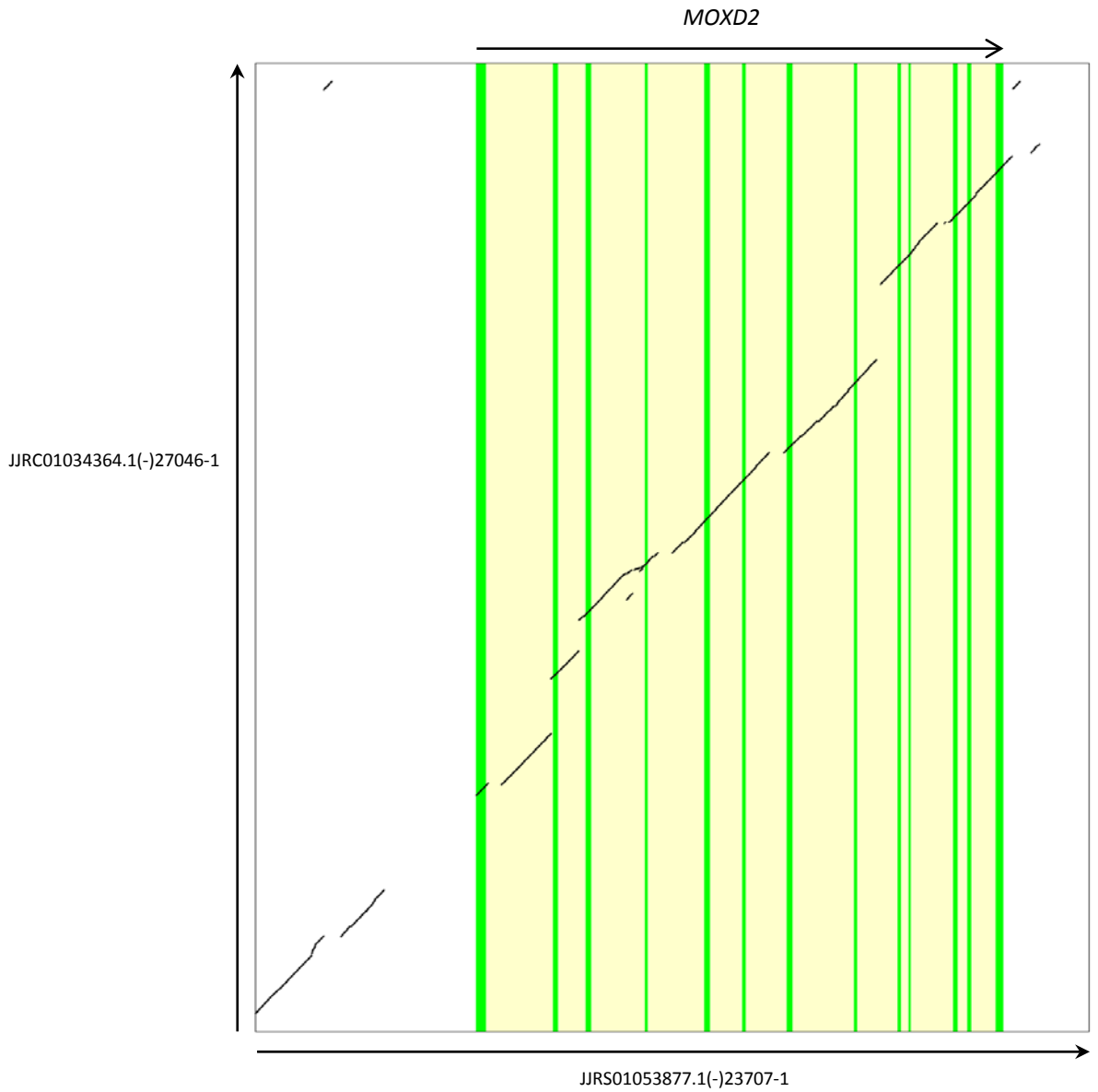
No. 36

Order: Pelecaniformes

Family: Ardeidae

Scientific name: *Egretta garzetta*

Common name: Little egret



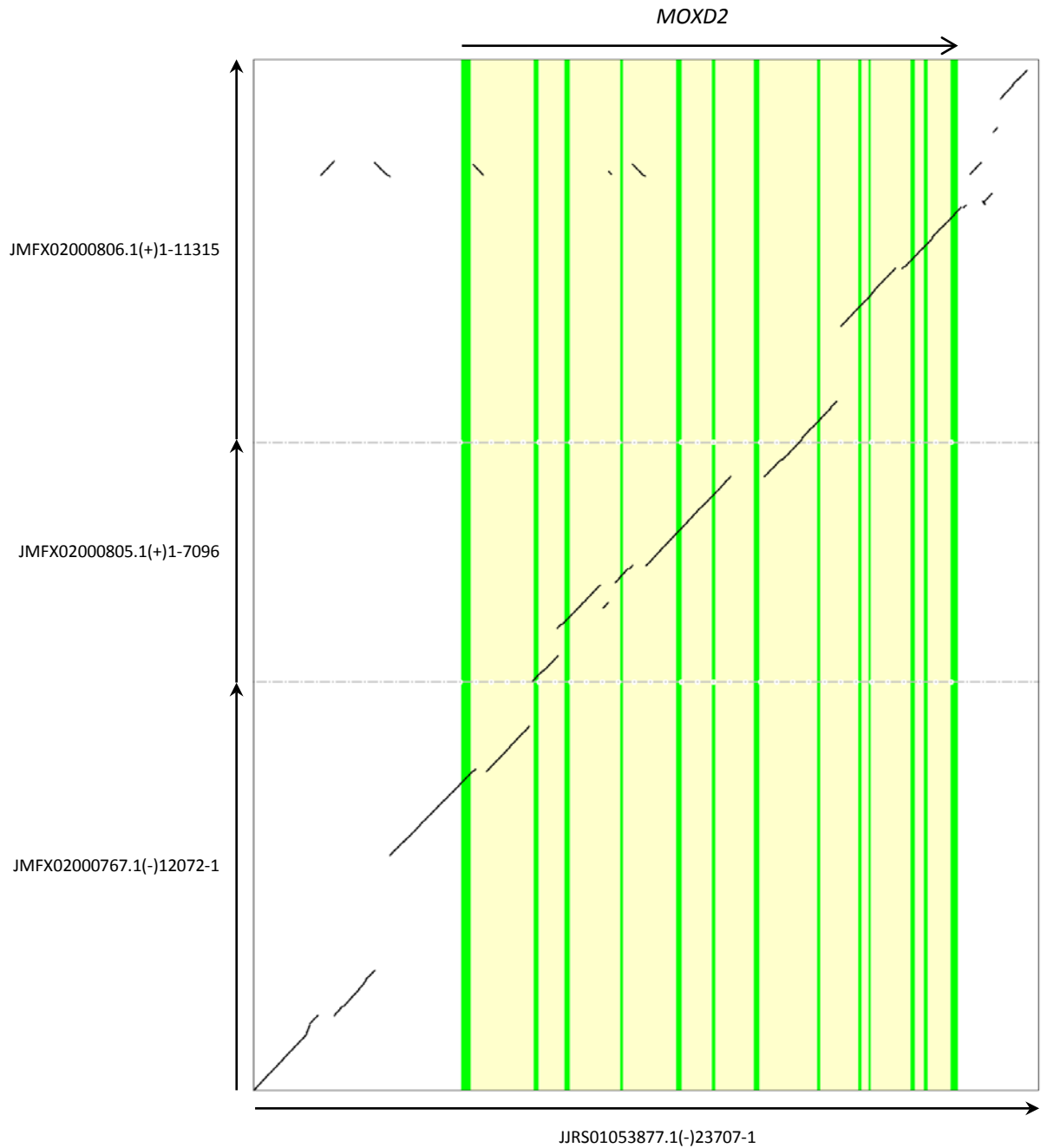
Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

No. 37
Order: Charadriiformes
Family: Charadriidae
Scientific name: *Charadrius vociferus*
Common name: Killdeer



Order: Passeriformes
Family: Acanthisittidae
Scientific name: *Acanthisitta chloris*
Common name: Rifleman

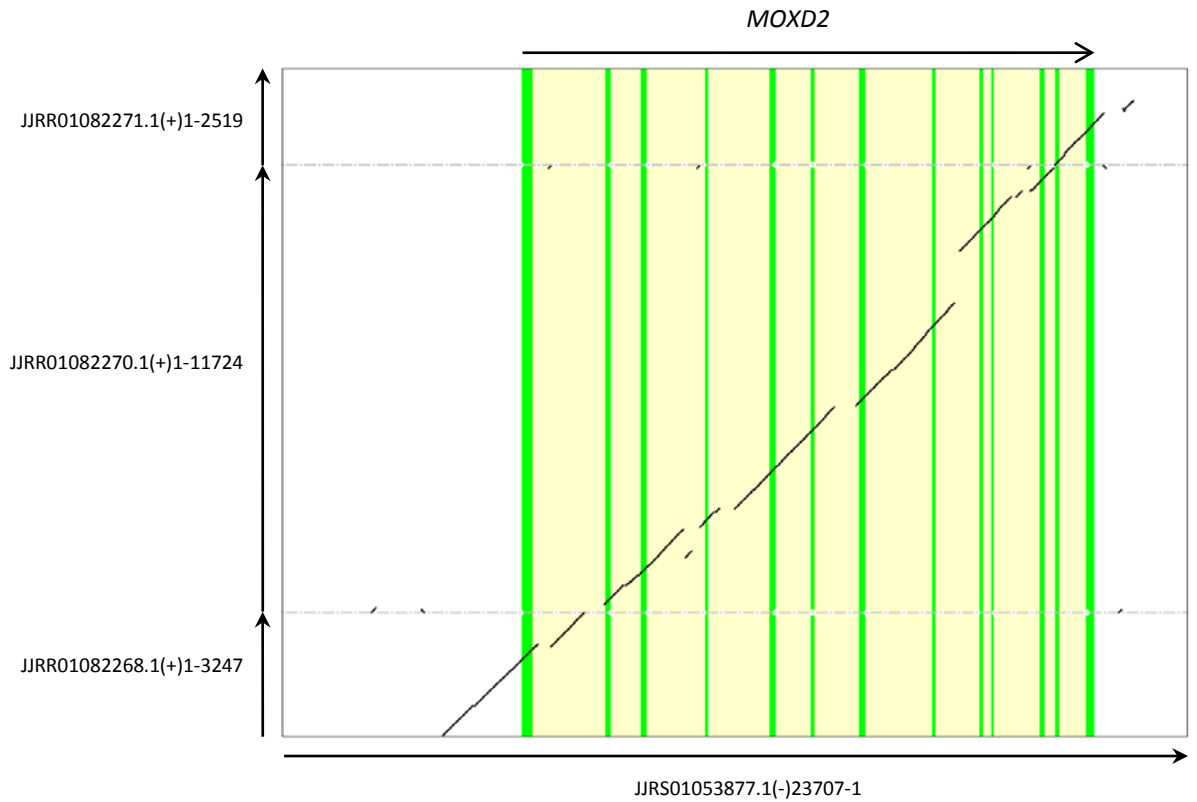
No. 38

Order: Gruiformes

Family: Gruidae

Scientific name: *Balearica pavonina gibbericeps*

Common name: East African crowned crane



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

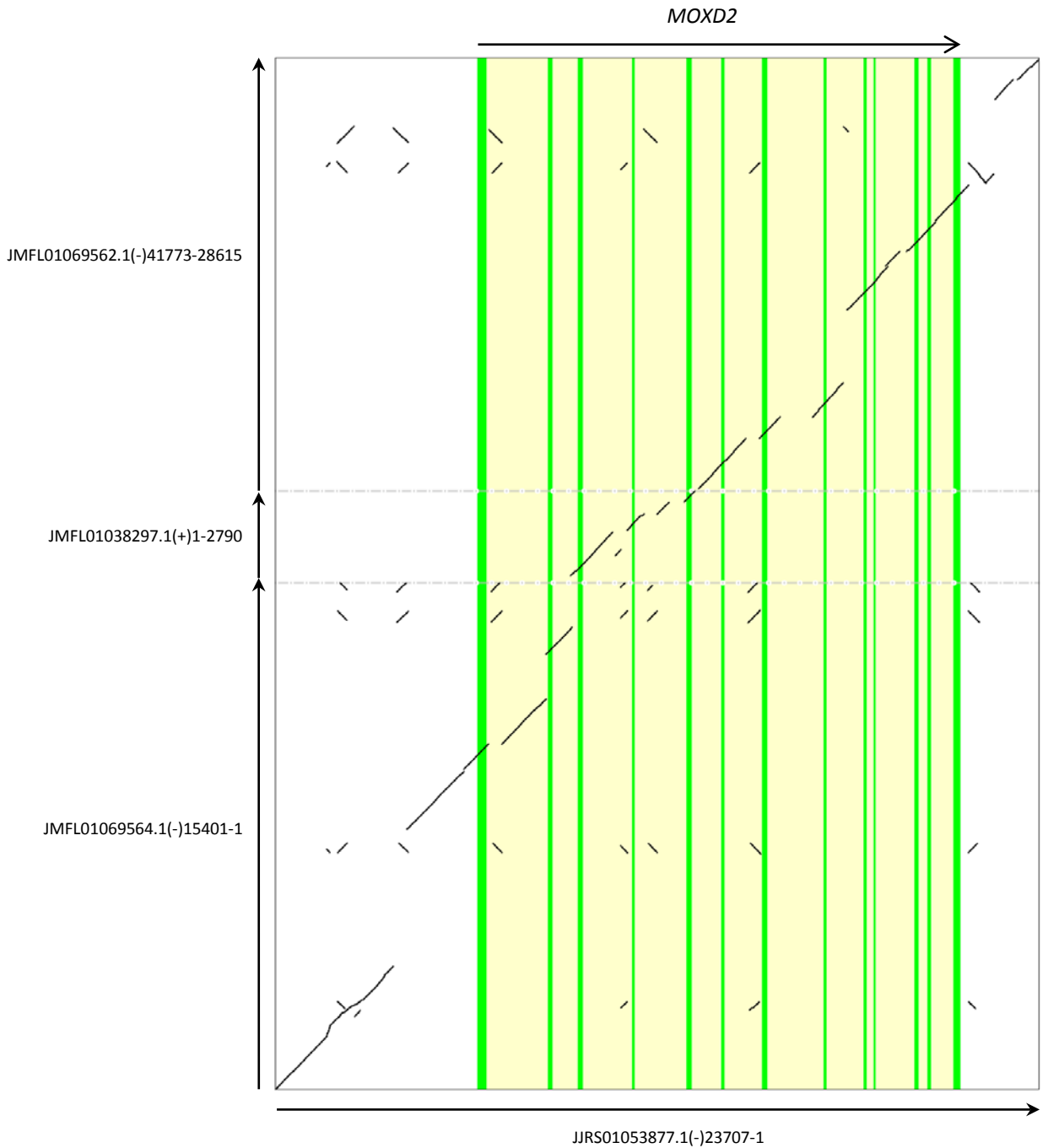
No. 39

Order: Opisthocomiformes

Family: Opisthocomidae

Scientific name: *Opisthocomus hoazin*

Common name: Hoatzin



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

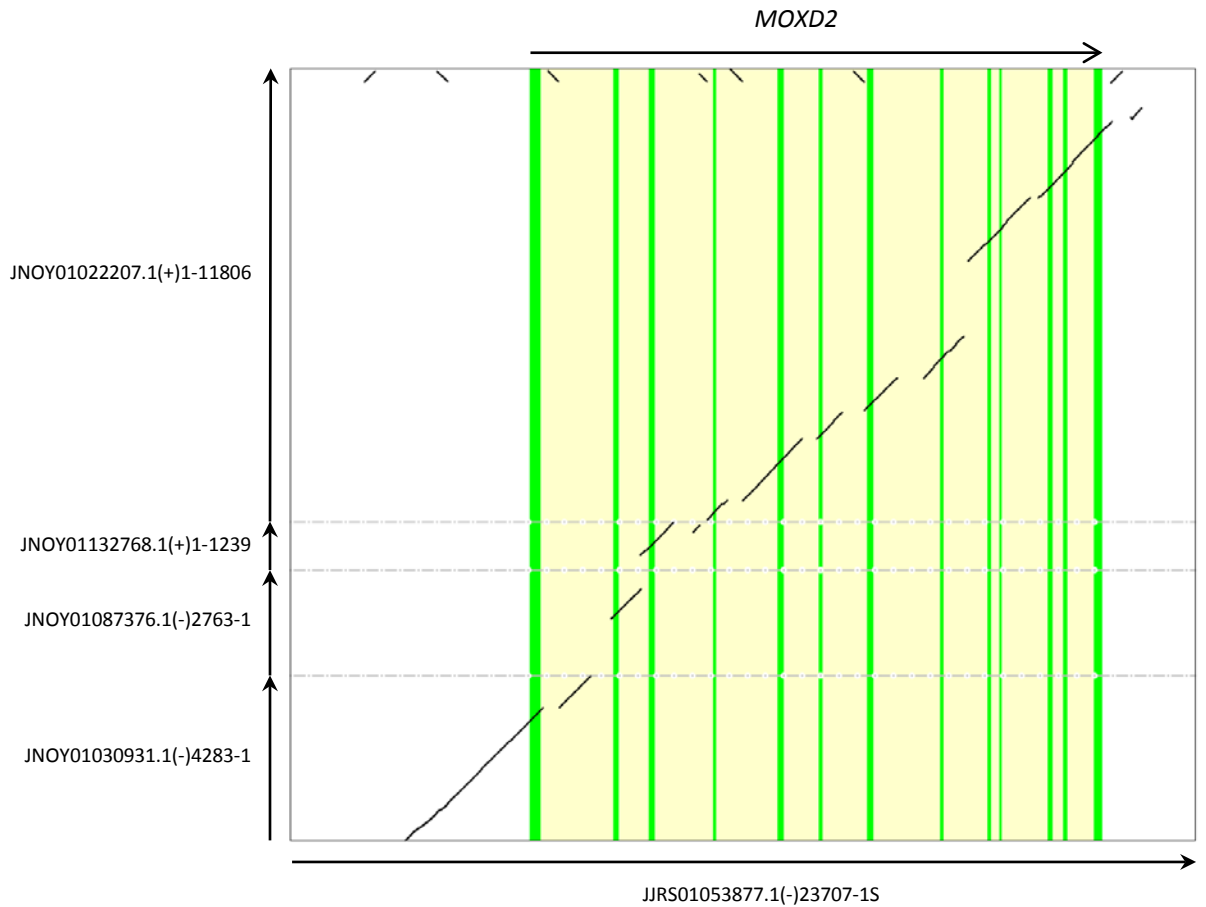
No. 40

Order: Musophagiformes

Family: Musophagidae

Scientific name: *Tauraco erythrolophus*

Common name: Red-crested turaco



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

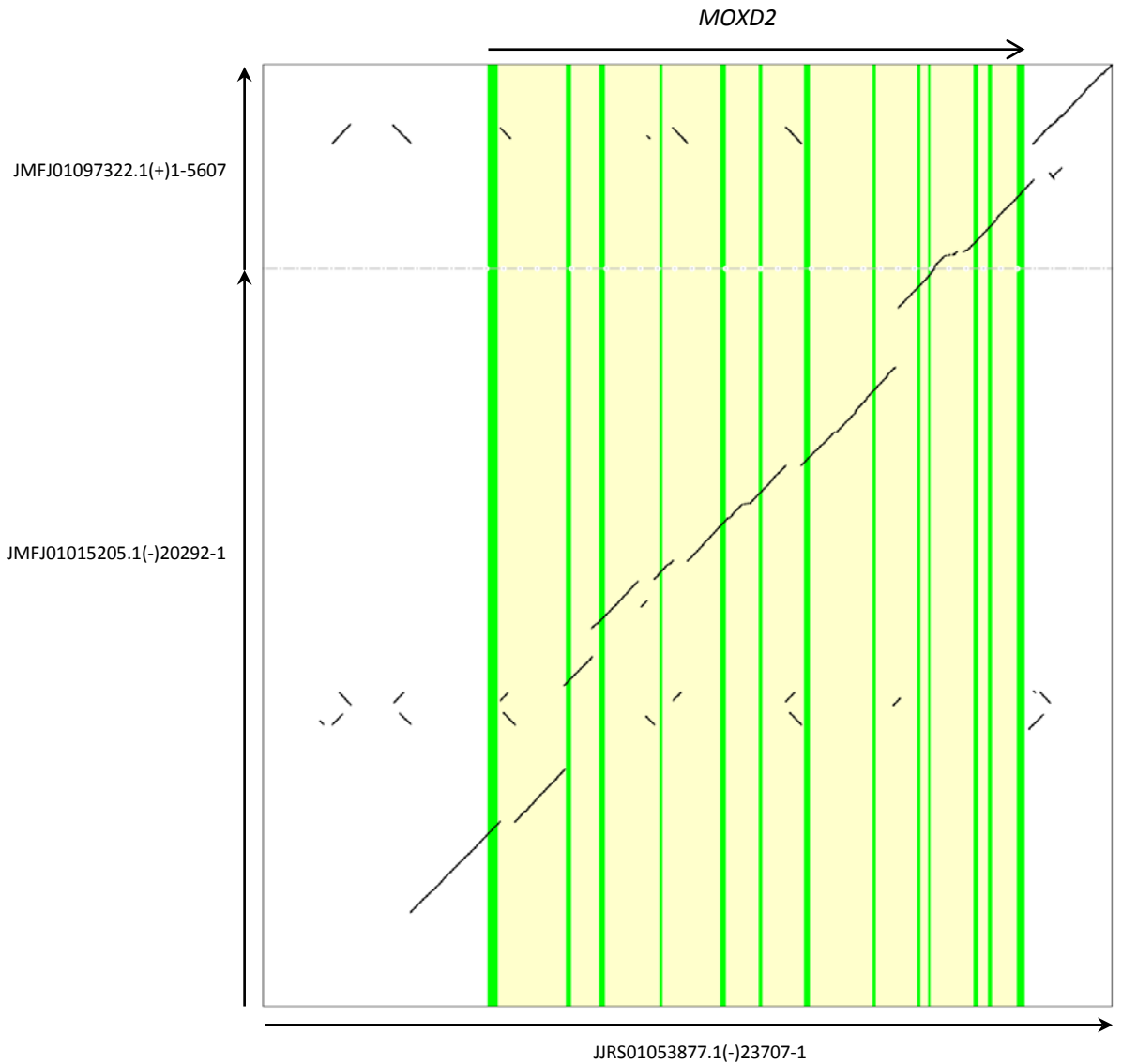
No. 41

Order: Otidiformes

Family: Otididae

Scientific name: *Chlamydotis undulata macqueenii*

Common name: MacQueen's bustard



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

No. 42

Order: Cuculiformes

Family: Cuculidae

Scientific name: *Cuculus canorus*

Common name: Common cuckoo

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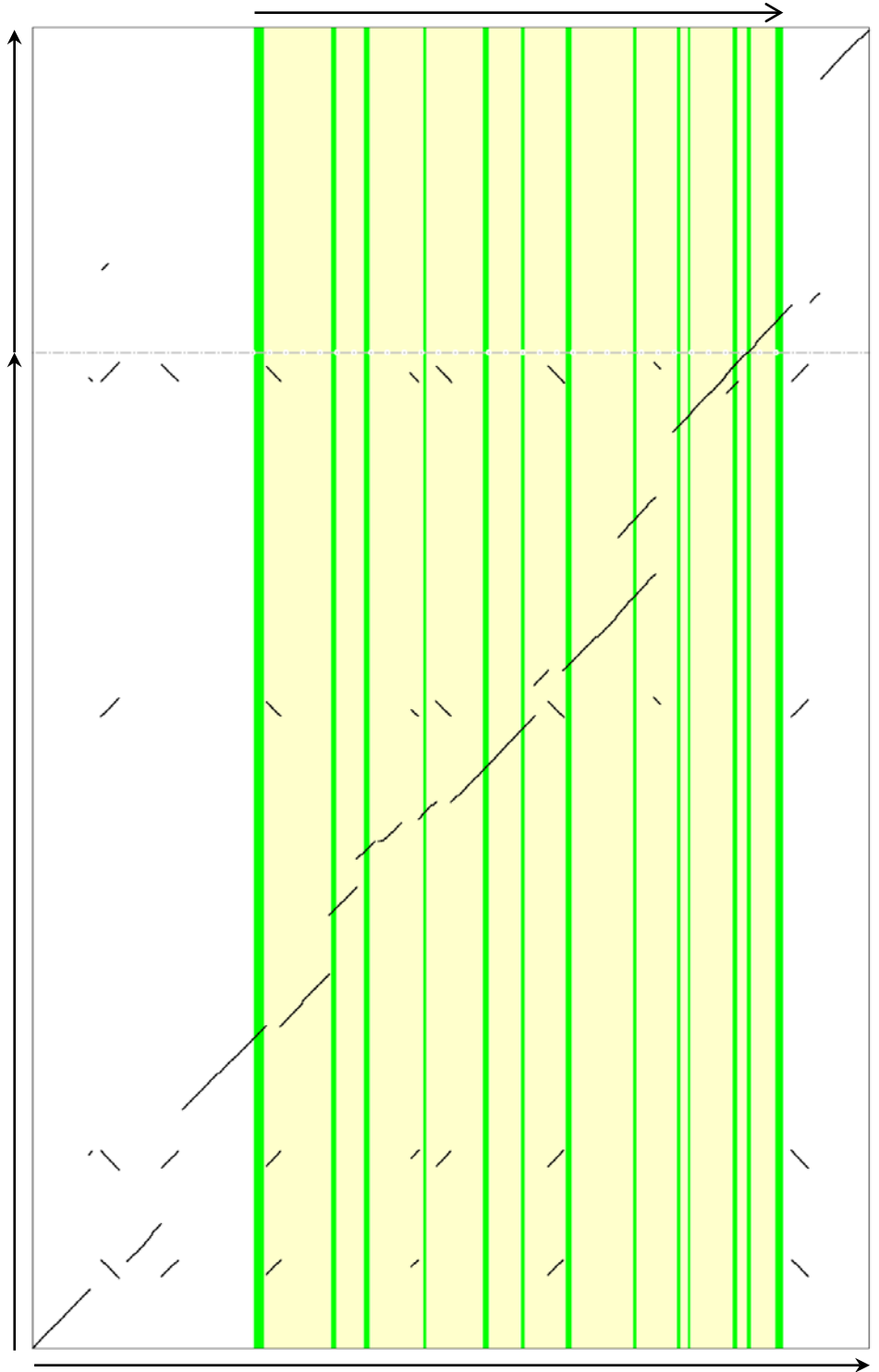
JRS01053877.1(-)-23707-1

Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman



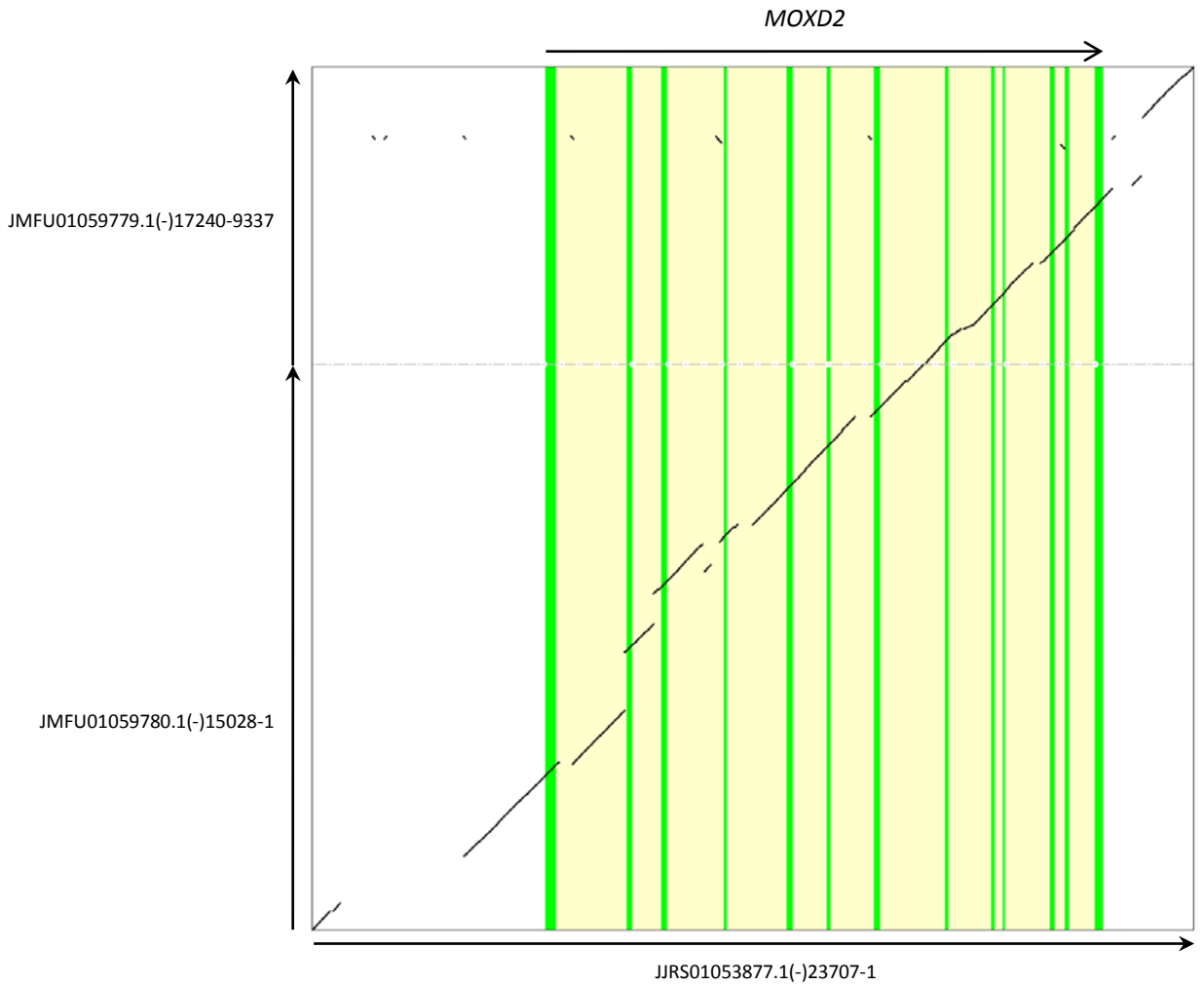
No. 43

Order: Caprimulgiformes

Family: Caprimulgidae

Scientific name: *Caprimulgus carolinensis*

Common name: Chuck-will's-widow



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

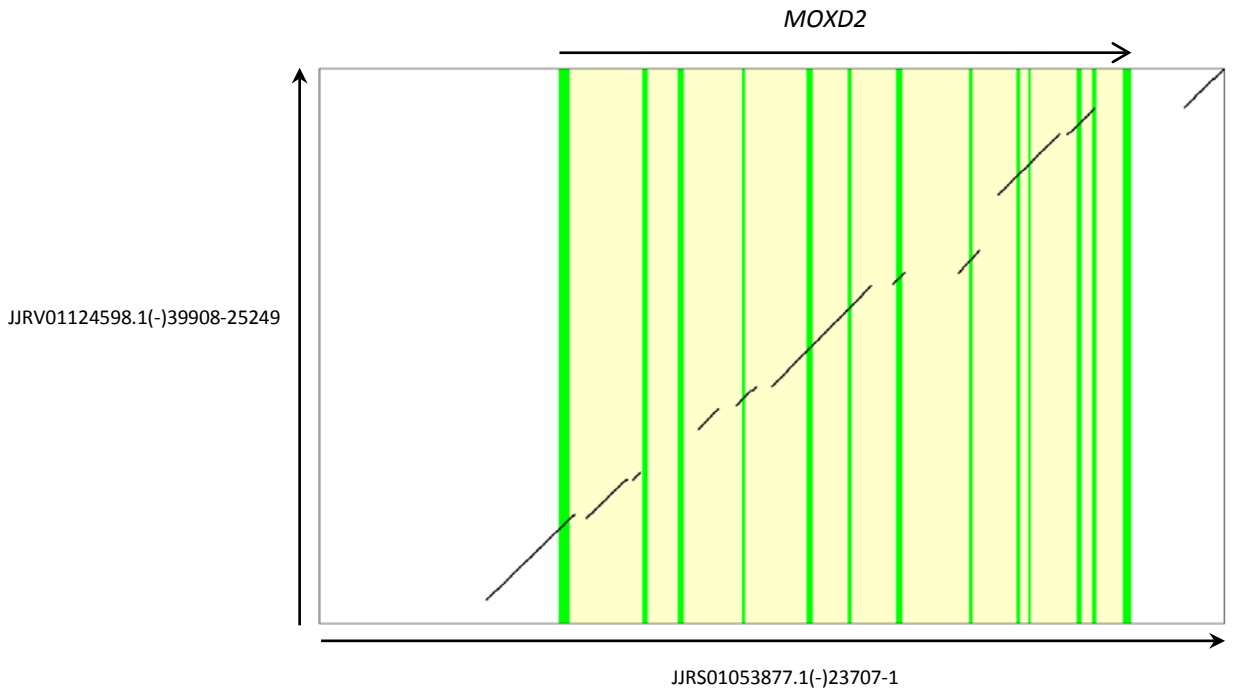
No. 44

Order: Apodiformes

Family: Trochilidae

Scientific name: *Calypte anna*

Common name: Anna's hummingbird



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

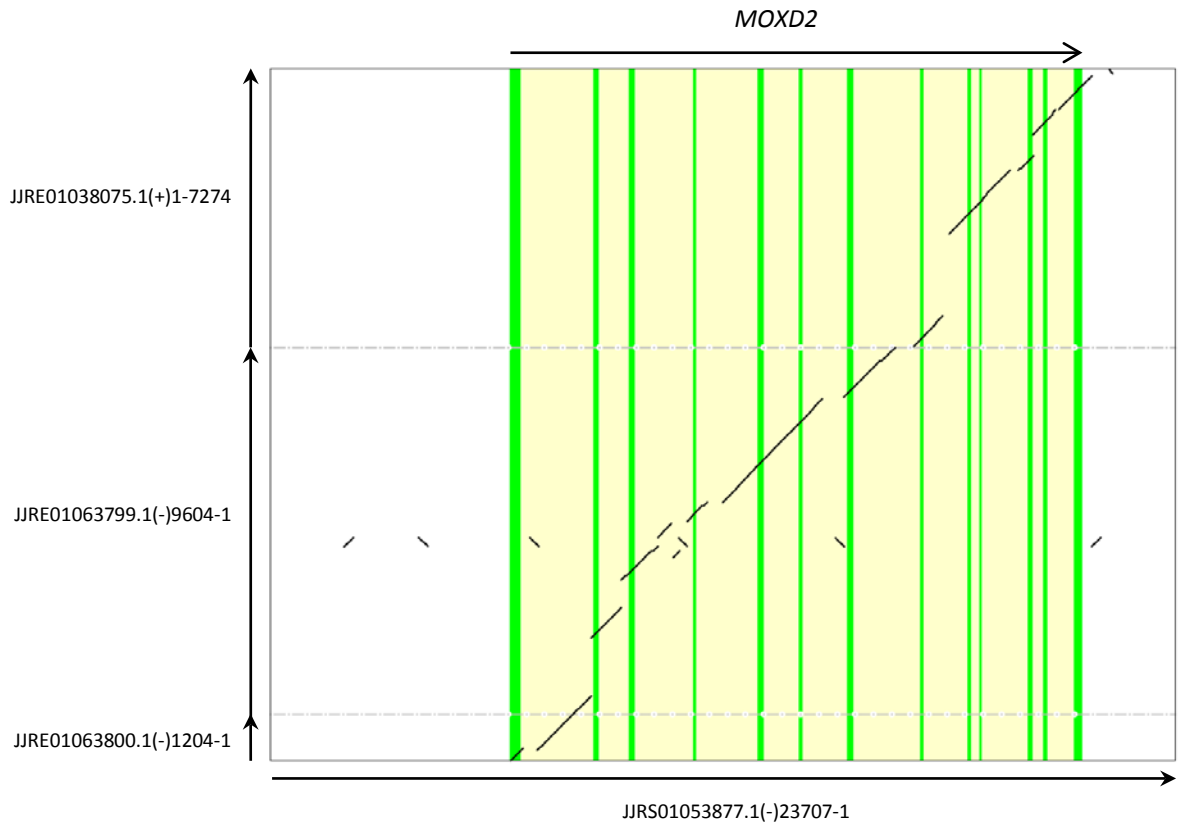
No. 45

Order: Phoenicopteriformes

Family: Phoenicopteridae

Scientific name: *Phoenicopterus ruber ruber*

Common name: Flamingo



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

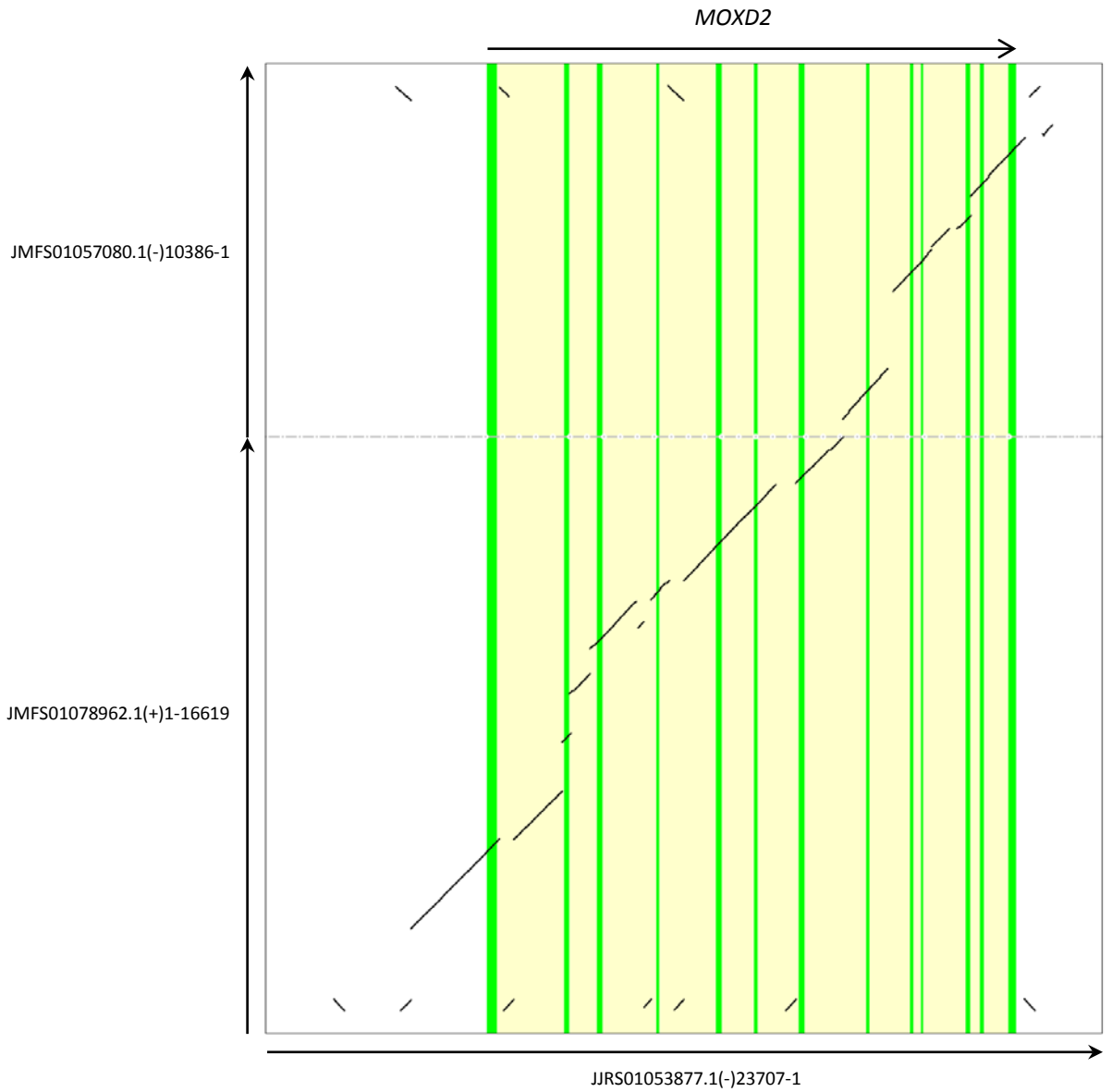
No. 46

Order: Podicipediformes

Family: Podicipedidae

Scientific name: *Podiceps cristatus*

Common name: Great crested grebe



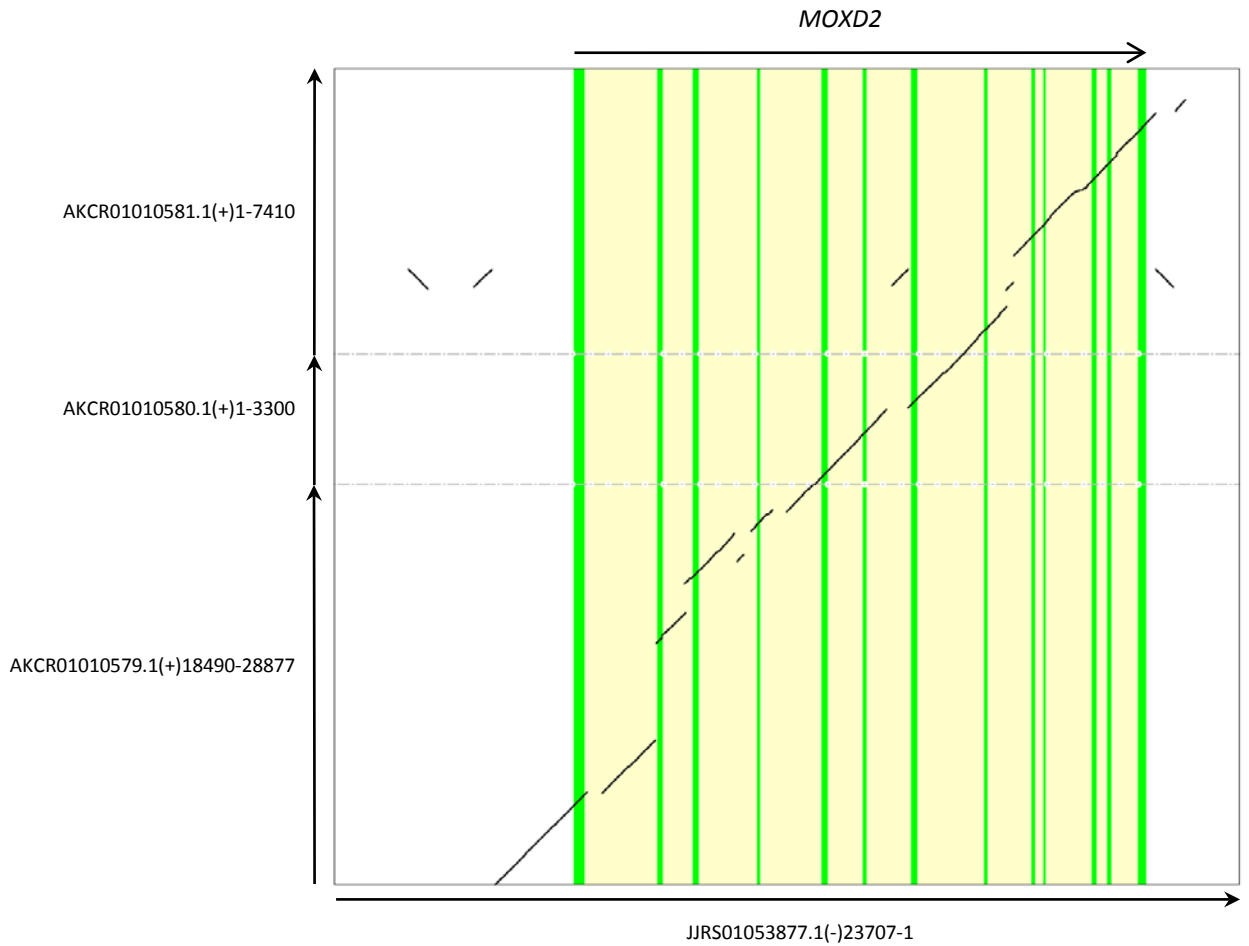
Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

No. 47
Order: Columbiformes
Family: Columbidae
Scientific name: *Columba livia*
Common name: Rock pigeon



Order: Passeriformes
Family: Acanthisittidae
Scientific name: *Acanthisitta chloris*
Common name: Rifleman

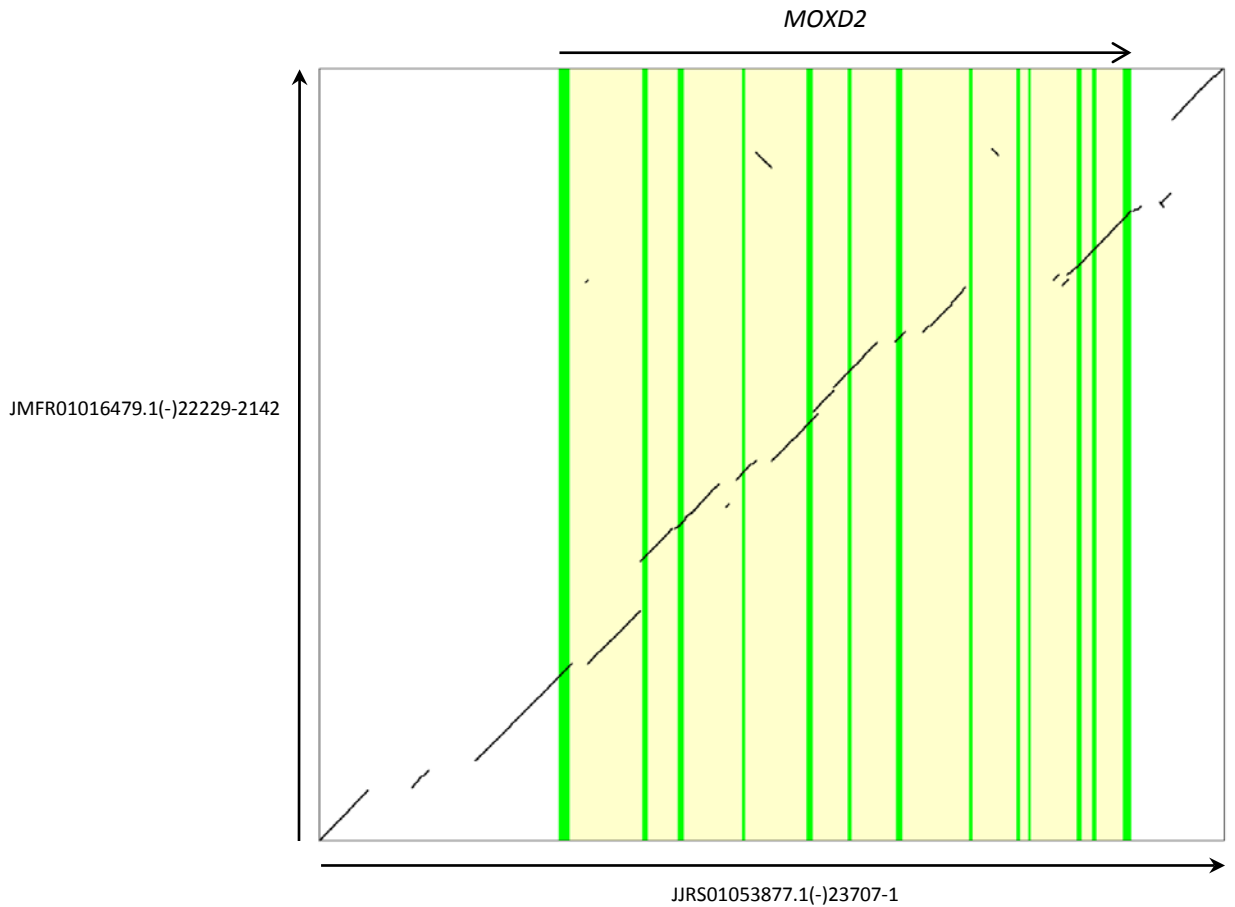
No. 48

Order: Pteroclidiformes

Family: Pteroclididae

Scientific name: *Pterocles gutturalis*

Common name: Yellow-throated sandgrouse



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

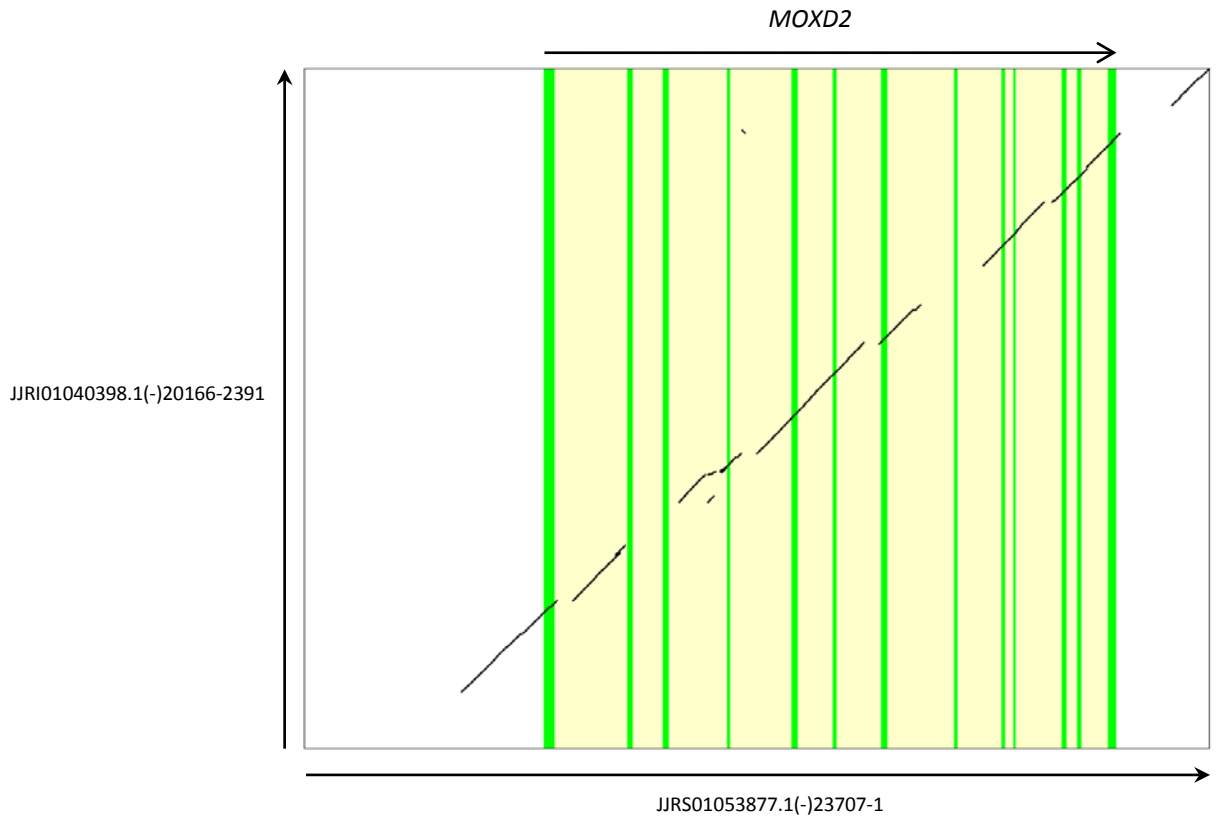
No. 49

Order: Mesitornithiformes

Family: Mesitornithidae

Scientific name: *Mesitornis unicolor*

Common name: Brown mesite



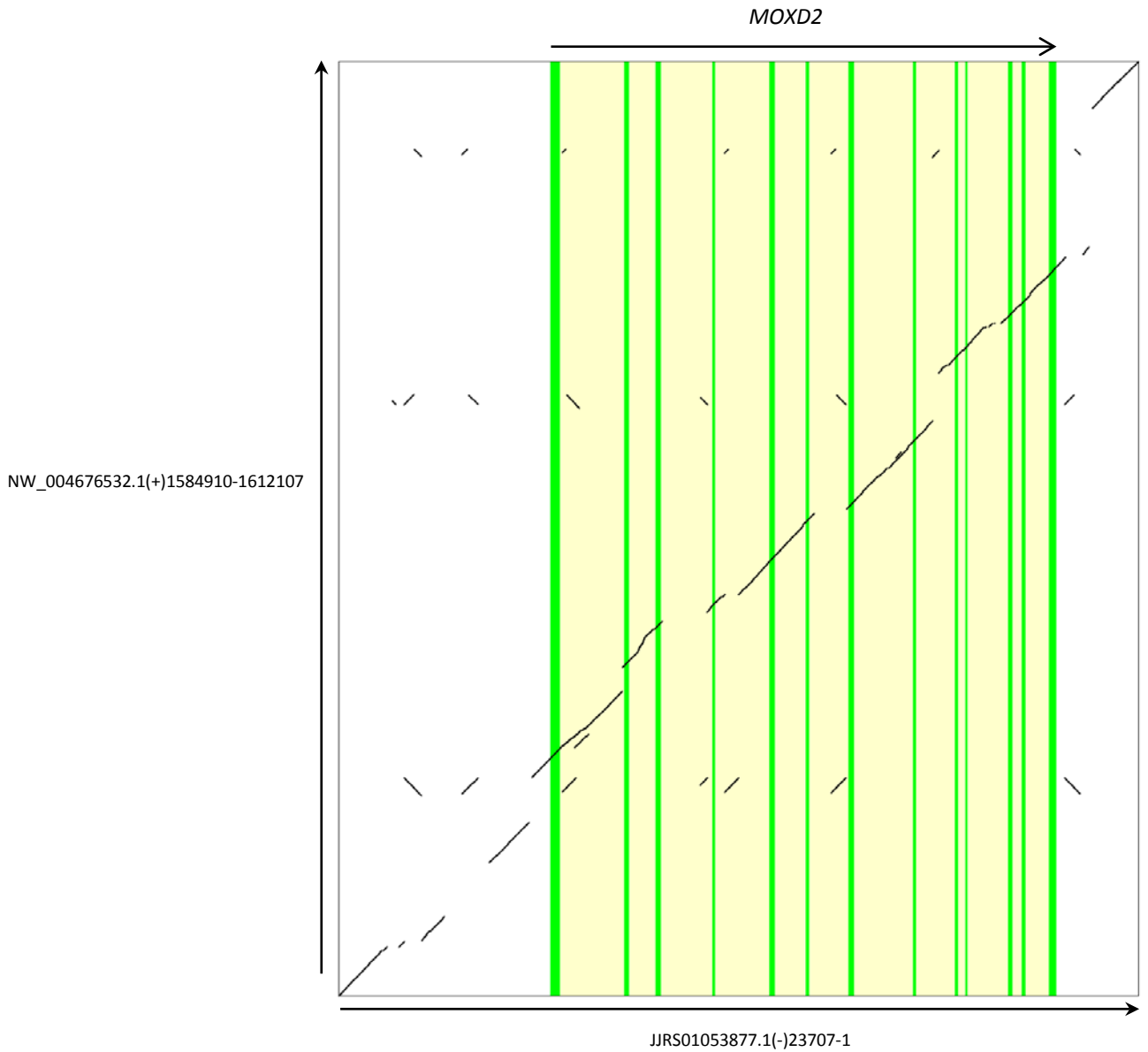
Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

No. 50
Order: Anseriformes
Family: Anatidae
Scientific name: *Anas platyrhynchos*
Common name: Mallard



Order: Passeriformes
Family: Acanthisittidae
Scientific name: *Acanthisitta chloris*
Common name: Rifleman

No. 51

Order: Galliformes

Family: Odontophoridae

Scientific name: *Colinus virginianus*

Common name: Northern bobwhite

No *MOXD2* sequence

No. 52

Order: Galliformes

Family: Phasianidae

Scientific name: *Coturnix japonica*

Common name: Japanese quail

No *MOXD2* sequence

No. 53

Order: Galliformes

Family: Phasianidae

Scientific name: *Gallus gallus*

Common name: Chicken

No *MOXD2* sequence

No. 54

Order: Galliformes

Family: Phasianidae

Scientific name: *Meleagris gallopavo*

Common name: Wild turkey

No *MOXD2* sequence

No. 55

Order: Galliformes

Family: Phasianidae

Scientific name: *Tetrao (Lyrurus) tetrix tetrix*

Common name: Black grouse

No *MOXD2* sequence

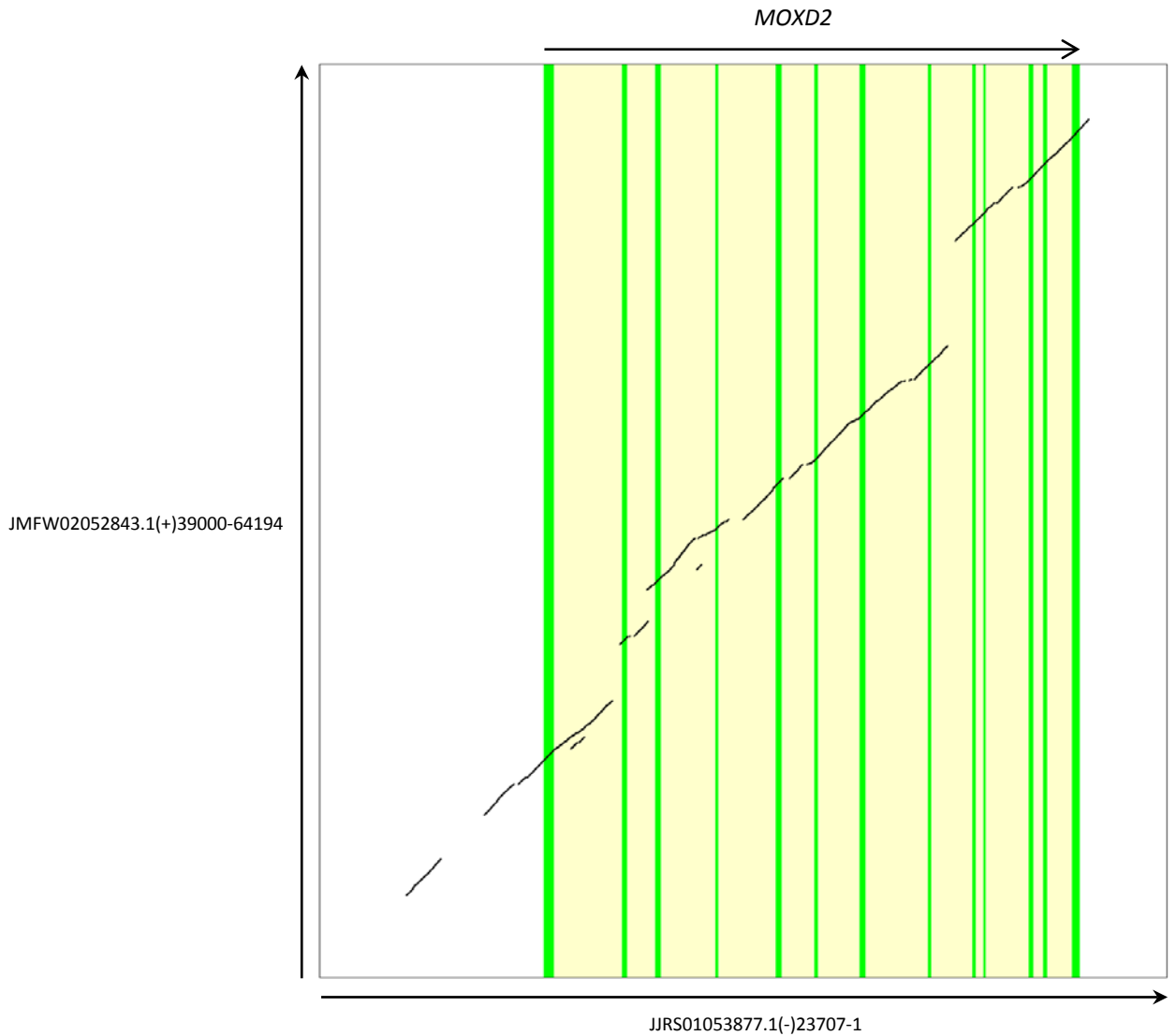
No. 56

Order: Tinamiformes

Family: Tinamidae

Scientific name: *Tinamus guttatus*

Common name: White-throated tinamou



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman

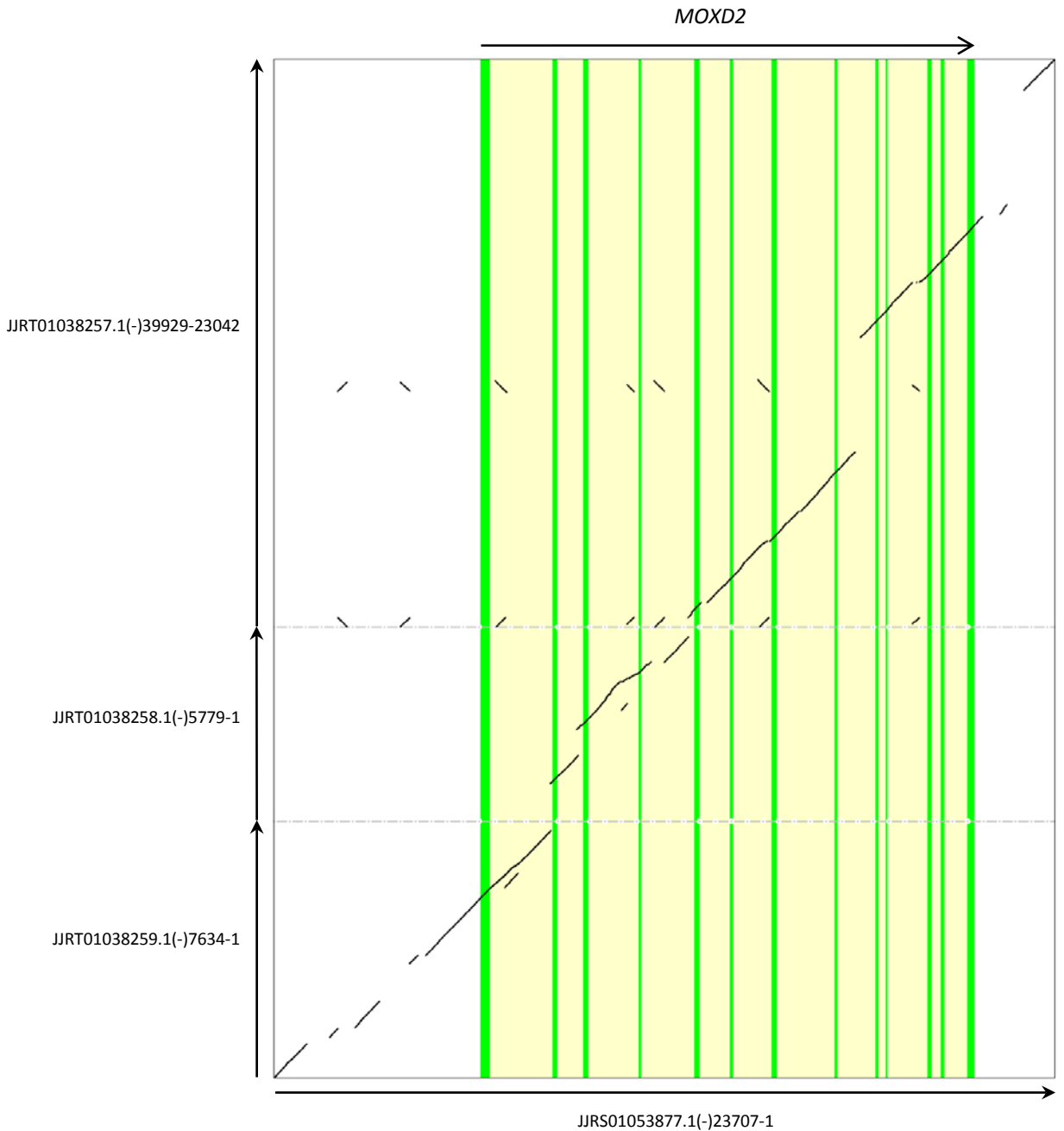
No. 57

Order: Struthioniformes

Family: Struthionidae

Scientific name: *Struthio camelus australis*

Common name: African ostrich



Order: Passeriformes

Family: Acanthisittidae

Scientific name: *Acanthisitta chloris*

Common name: Rifleman